



National Transportation Safety Board

**Office of Marine Safety
Washington, D.C. 20594-2000**

December 13, 2016

**ATTACHMENT 3 to the METEOROLOGY GROUP FACTUAL REPORT
DCA16MM001**

Tropical Cyclone Public Advisory products, Tropical Cyclone Forecast/Advisory products, Aviation Tropical Cyclone Advisory products, Tropical Cyclone Discussions, Tropical Cyclone Updates, Tropical Weather Discussions, Special Advisory Packages, High Seas Forecasts (both National Hurricane Center and Ocean Prediction Center issuances), Offshore Waters Forecasts, and Marine Weather Discussions issued (nominally) between 2300 EDT on September 27, 2015, and 1100 EDT on October 1, 2015.

*Submitted by: Mike Richards
NTSB, AS-30*

WTNT31 KNHC 280237
TCPAT1

BULLETIN
TROPICAL DEPRESSION ELEVEN ADVISORY NUMBER 1
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM AST SUN SEP 27 2015

...NEW TROPICAL DEPRESSION FORMS IN THE WESTERN ATLANTIC...

SUMMARY OF 1100 PM AST...0300 UTC...INFORMATION

LOCATION...27.5N 68.7W
ABOUT 405 MI...650 KM SW OF BERMUDA
MAXIMUM SUSTAINED WINDS...35 MPH...55 KM/H
PRESENT MOVEMENT...NW OR 315 DEGREES AT 2 MPH...4 KM/H
MINIMUM CENTRAL PRESSURE...1007 MB...29.74 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM AST (0300 UTC), the center of Tropical Depression Eleven was located near latitude 27.5 North, longitude 68.7 West. The depression is moving toward the northwest near 2 mph (4 km/h). A west-northwestward or northwestward drift is expected during the next couple of days.

Maximum sustained winds are near 35 mph (55 km/h) with higher gusts. Little change in strength is forecast during the next 48 hours.

The estimated minimum central pressure is 1007 mb (29.74 inches).

HAZARDS AFFECTING LAND

None

NEXT ADVISORY

Next complete advisory at 500 AM AST.

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Forecaster Kimberlain

WTNT21 KNHC 280237
TCMAT1

TROPICAL DEPRESSION ELEVEN FORECAST/ADVISORY NUMBER 1
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC MON SEP 28 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL DEPRESSION CENTER LOCATED NEAR 27.5N 68.7W AT 28/0300Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE NORTHWEST OR 315 DEGREES AT 2 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1007 MB
MAX SUSTAINED WINDS 30 KT WITH GUSTS TO 40 KT.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 27.5N 68.7W AT 28/0300Z
AT 28/0000Z CENTER WAS LOCATED NEAR 27.4N 68.6W

FORECAST VALID 28/1200Z 27.7N 69.4W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 29/0000Z 27.9N 69.9W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 29/1200Z 28.2N 70.4W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 30/0000Z 28.8N 70.8W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 01/0000Z 31.0N 71.6W
MAX WIND 30 KT...GUSTS 40 KT.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 02/0000Z...DISSIPATED

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 27.5N 68.7W

NEXT ADVISORY AT 28/0900Z

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FORECASTER KIMBERLAIN

FKNT21 KNHC 280238
TCANT1

TROPICAL DEPRESSION ELEVEN ICAO ADVISORY NUMBER 1
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC MON SEP 28 2015

TC ADVISORY

DTG: 20150928/0300Z
TCAC: KNHC
TC: ELEVEN
NR: 001
PSN: N2730 W06842
MOV: NW 02KT
C: 1007HPA
MAX WIND: 030KT
FCST PSN + 06 HR: 280900 N2738 W06910
FCST MAX WIND + 06 HR: 030KT
FCST PSN + 12 HR: 281500 N2745 W06931
FCST MAX WIND + 12 HR: 030KT
FCST PSN + 18 HR: 282100 N2751 W06946
FCST MAX WIND + 18 HR: 030KT
FCST PSN + 24 HR: 290300 N2758 W07001
FCST MAX WIND + 24 HR: 030KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150928/0900Z

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WTNT41 KNHC 280239
TCDAT1

TROPICAL DEPRESSION ELEVEN DISCUSSION NUMBER 1
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM AST SUN SEP 27 2015

Late-afternoon visible satellite imagery indicates that the circulation of the low pressure area located midway between the Bahamas and Bermuda has become well defined. Since the low has already had persistent and organized deep convection, the system is being declared a tropical depression. A 2312 UTC SSMI/S overpass indicated that the center of the depression has become at least partially exposed to the northwest of a large convective mass due to moderate northwesterly shear. The initial wind speed is set to 30 kt, based on a T2.0/30 kt classification from TAFB. The depression is expected to be blasted by strong north-northwesterly or northerly winds associated with the tail of an upper-level trough over the central Atlantic beginning on Monday. In fact, global models show the shear being sufficiently strong enough to result in the cyclone either becoming a remnant low or dissipating within a few days. The intensity forecast is below the multi-model consensus through the forecast period, closest to the HWRF solution.

A low- to mid- level ridge north and northeast of the cyclone is steering the lower half of the depression's circulation northwestward while increasing northwesterly winds aloft are opposing this motion. The net deep-layer mean flow is therefore providing for only a slow northwestward motion of 315/02 kt, a rather uncertain estimate considering the scatter of recent fixes. This synoptic pattern is expected to persist for the next couple of days, resulting in a the cyclone's drifting west-northwestward or northwestward. The low- to mid-level ridge is forecast to shift eastward in 2-3 days as a trough reaches the eastern seaboard of the United States, and the increasingly shallow system should turn northwestward and north-northwestward at a faster forward speed if it still exists. The track forecast is close to a blend of the GFS and ECMWF model solutions.

FORECAST POSITIONS AND MAX WINDS

INIT	28/0300Z	27.5N	68.7W	30 KT	35 MPH
12H	28/1200Z	27.7N	69.4W	30 KT	35 MPH
24H	29/0000Z	27.9N	69.9W	30 KT	35 MPH
36H	29/1200Z	28.2N	70.4W	30 KT	35 MPH
48H	30/0000Z	28.8N	70.8W	30 KT	35 MPH

72H 01/0000Z 31.0N 71.6W 30 KT 35 MPH
96H 02/0000Z...DISSIPATED

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Forecaster Kimberlain

FZNT23 KNHC 280242
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1042 PM EDT SUN SEP 27 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-281445-
BAHAMAS INCLUDING CAY SAL BANK-
1042 PM EDT SUN SEP 27 2015

.OVERNIGHT...N TO NE WINDS 5 TO 10 KT. SEAS 4 TO 6 FT ATLC
EXPOSURES...AND 2 FT OR LESS ELSEWHERE.
.MON...NE WINDS 5 TO 10 KT...SHIFTING TO NW IN THE AFTERNOON.
SEAS 4 TO 6 FT ATLC EXPOSURES...AND 2 FT OR LESS ELSEWHERE.
.MON NIGHT...N WINDS 5 TO 10 KT. SEAS 4 TO 6 FT ATLC EXPOSURES...
AND 2 FT OR LESS ELSEWHERE.
.TUE...NW WINDS 5 TO 10 KT. SEAS 4 TO 6 FT ATLC EXPOSURES...AND
2 FT OR LESS ELSEWHERE.
.TUE NIGHT...NW TO N WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.
.WED...NW WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.
.WED NIGHT...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.THU...W WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.THU NIGHT...W TO NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.FRI...W WINDS 5 TO 10 KT...SHIFTING TO W TO NW 10 TO 15 KT IN
THE AFTERNOON. SEAS 3 TO 4 FT.
.FRI NIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 3 FT.

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AMZ119-281445-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1042 PM EDT SUN SEP 27 2015

.OVERNIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 4 TO 6 FT.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.MON...W TO NW WINDS 10 TO 15 KT. SEAS 5 TO 6 FT. SCATTERED

SHOWERS AND ISOLATED TSTMS.

.MON NIGHT...W WINDS 10 TO 15 KT. SEAS 5 TO 6 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.TUE...W WINDS 10 TO 15 KT. SEAS 6 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.TUE NIGHT...W WINDS 10 TO 15 KT...DIMINISHING TO 5 TO 10 KT LATE. SEAS 6 FT.

.WED...SW TO W WINDS 5 TO 10 KT. SEAS 6 FT.

.WED NIGHT...SW TO W WINDS 5 TO 10 KT. SEAS 5 TO 6 FT.

.THU...S TO SW WINDS 5 TO 10 KT. SEAS 5 TO 6 FT.

.THU NIGHT...S WINDS 5 TO 10 KT. SEAS 5 FT.

.FRI...S TO SW WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT IN THE AFTERNOON. SEAS 4 TO 5 FT.

.FRI NIGHT...SW WINDS 10 TO 15 KT...DIMINISHING TO 5 TO 10 KT LATE. SEAS 4 TO 5 FT.

FZNT02 KNHC 280357
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
0430 UTC MON SEP 28 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0000 UTC MON SEP 28.
24 HOUR FORECAST VALID 0000 UTC TUE SEP 29.
48 HOUR FORECAST VALID 0000 UTC WED SEP 30.

.WARNINGS.

.NONE.

.SYNOPSIS AND FORECAST.

.TROPICAL DEPRESSION ELEVEN NEAR 27.5N 68.7W 1007 MB AT 0300 UTC SEP 28 MOVING NW OR 315 DEG AT 2 KT. MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT. WITHIN 210 NM NE SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 10 FT IN NE SWELL.

.24 HOUR FORECAST TROPICAL DEPRESSION ELEVEN NEAR 27.9N 69.9W. MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT. WITHIN 240 NM NE SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 11 FT IN NE SWELL.

.48 HOUR FORECAST TROPICAL DEPRESSION ELEVEN NEAR 28.8N 70.8W. MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT. OVER FORECAST WATERS WITHIN 240 NM NE SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 11 FT IN NE TO E SWELL.

.72 HOUR FORECAST TROPICAL DEPRESSION ELEVEN NEAR 31.0N 71.6W. MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.ATLC COLD FRONT FROM 31N40W TO 28N54W THEN STATIONARY FRONT TO 31N63W. OVER FORECAST WATERS N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 15 FT. S OF FRONT TO 25N BETWEEN 48W AND 53W NE WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 28.5N BETWEEN 47W AND 75W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.

.24 HOUR FORECAST COLD FRONT FROM 19N35W TO 27.5N50W THEN STATIONARY FRONT TO 31N65W. N OF FRONT E OF 59W NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 14 FT. N OF FRONT W OF 59W SE WINDS 20 TO 30 KT. SEAS 10 TO 13 FT. S OF FRONT TO 25N BETWEEN 51W AND 57W E WINDS 20 TO 25 KT. SEAS 10 TO 12 FT IN NE SWELL. ELSEWHERE N OF LINE FROM 30N35W TO 22.5N54W TO 28N73W TO 28.5N74W TO 31N77W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN NE TO E SWELL.

.48 HOUR FORECAST STATIONARY FRONT FROM 28N35W TO 26N45W TO 31N67W. N OF E OF 50W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 13 FT. N OF FRONT W OF 50W SE WINDS 20 TO 25 KT. SEAS 8 TO 13 FT. S OF FRONT TO 26N BETWEEN 54W AND 61W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT IN E SWELL. ELSEWHERE N OF LINE FROM 25N35W TO 23N46W TO 24N62W TO 31N73W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE TO E SWELL.

.CARIBBEAN FROM 11N TO 14N BETWEEN 69.5W AND 73.5W E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST S OF 14N BETWEEN 69W AND 75W E WINDS 20 TO 25 KT. SEAS TO 9 FT.

.48 HOUR FORECAST S OF 13.5N BETWEEN 70W AND 75W E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.GULF OF MEXICO LOW PRES NEAR 28.5N93.5W 1008 MB STATIONARY. N OF 28.5N BETWEEN 85W AND 90W E TO SE WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST LOW PRES NEAR 28.5N94W 1006 MB. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.GULF OF MEXICO LOW PRES NEAR 23N88W 1007 MB. FROM 21N TO 25N BETWEEN 84W AND 88W...INCLUDING THE ENTRANCE TO YUCATAN CHANNEL...SE TO S WINDS 20 TO 25 KT. SEAS TO 8 FT. POSSIBLE TROPICAL CYCLONE FORMATION.

.24 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 28N86W 1008 MB. FROM 24N TO 30N BETWEEN 83.5W AND 87W SE TO S WINDS 20 TO 25 KT. SEAS TO 9 FT.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...INLAND. OVER FORECAST WATERS WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 280358

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV
NWS OCEAN PREDICTION CENTER WASHINGTON DC
0430 UTC MON SEP 28 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY
BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0000 UTC SEP 28

24 HOUR FORECAST VALID 0000 UTC SEP 29

48 HOUR FORECAST VALID 0000 UTC SEP 30

.WARNINGS.

...STORM WARNING...

.LOW 61N69W 986 MB MOVING E 15 KT. OVER FORECAST WATERS WITHIN
420 NM E QUADRANT AND ELSEWHERE FROM 43N TO 57N BETWEEN 49W AND
66W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.24 HOUR FORECAST LOW 62N55W 980 MB WITH A FRONT FROM CENTER
59N46W TO 54N40W TO 46N41W. WITHIN 180 NM N AND NE OF THE FRONT
W OF 46W WINDS 35 TO 50 KT. SEAS 10 TO 19 FT. ALSO WITHIN 180 NM
OF CENTER AND ELSEWHERE WITHIN 240 NM N AND E OF THE FRONT WINDS
25 TO 35 KT. SEAS 8 TO 12 FT. ELSEWHERE W OF THE FRONT TO 66W
WINDS TO 25 KT. SEAS TO 10 FT.

.48 HOUR FORECAST LOW INLAND OVER GREENLAND WITH CONDITIONS
DIMINISHED.

...GALE WARNING...

.WITHIN 360 NM N OF A LINE FROM 31N46W TO 31N64W TO 33N72W WINDS
25 TO 35 KT. SEAS 9 TO 16 FT.

.24 HOUR FORECAST WITHIN 300 NM N OF A LINE FROM 31N52W TO
31N65W TO 33N71W WINDS 25 TO 35 KT. SEAS 9 TO 16 FT.

.48 HOUR FORECAST WITHIN 480 NM SW AND W OF A LINE FROM 31N41W
TO 36N55W TO 40N61W WINDS 20 TO 30 KT. SEAS 8 TO 13 FT.

...GALE WARNING...

.LOW E OF THE FORECAST AREA NEAR 49N28W 993 MB MOVING NE 35 KT.
OVER FORECAST WATERS FROM 33N TO 47N E OF 46W WINDS 25 TO 40 KT.
SEAS 10 TO 18 FT.

.24 HOUR FORECAST LOW WELL E OF THE FORECAST AREA. S OF A LINE
FROM 41N35W TO 36N40W TO 35N52W WINDS TO 25 KT. SEAS 8 TO 13 FT.

.48 HOUR FORECAST LOW WELL E OF THE FORECAST AREA WITH
CONDITIONS DIMINISHED.

...GALE WARNING...

.36 HOUR FORECAST NEW LOW 62N39W 999 MB. OVER FORECAST WATERS
WITHIN 360 NM SE SEMICIRCLE AND ELSEWHERE FROM 49N TO 58N E OF

38W WINDS 25 TO 40 KT. SEAS 8 TO 15 FT.
.48 HOUR FORECAST LOW AND ASSOCIATED CONDITIONS E OF THE FORECAST AREA.
.SYNOPSIS AND FORECAST.
.LOW 62N41W 1000 MB MOVING NE 10 KT. OVER ICE FREE FORECAST WATERS WITHIN 240 NM S QUADRANT WINDS 20 TO 30 KT. SEAS 8 TO 12 FT.
.24 HOUR FORECAST LOW DISSIPATED AND ASSOCIATED CONDITIONS DIMINISHED.
.48 HOUR FORECAST NEW LOW 59N46W 1006 MB. WITHIN 360 NM S SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 10 FT.
.DENSE FOG. 24 HOUR FORECAST VSBY OCCASIONALLY LESS THAN 1 NM WITHIN 240 NM OF 56N45W.
.48 HOUR FORECAST. DENSE FOG OVER FORECAST WATERS FROM 52N TO 60N E OF 46W.
.DENSE FOG. 48 HOUR FORECAST VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS FROM 45N TO 52N BETWEEN 46W AND 65W.
.HIGH 40N61W 1032 MB MOVING SE 20 KT.
.24 HOUR FORECAST HIGH 37N49W 1032 MB.
.48 HOUR FORECAST HIGH 40N52W 1031 MB.
.FORECASTER VUKITS. OCEAN PREDICTION CENTER.
NATIONAL HURRICANE CENTER MIAMI FL
ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.
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.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 280545
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 AM EDT MON SEP 28 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0000 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 0515 UTC.

...SPECIAL FEATURES...

AN AREA OF INTEREST IS BETWEEN THE BAHAMA ISLANDS AND BERMUDA HAS BEEN UPGRADED TO TROPICAL DEPRESSION ELEVEN. TROPICAL DEPRESSION ELEVEN IS CENTERED NEAR 27.5N 68.7W AT 28/0300 UTC OR ABOUT 350 NM SW OF BERMUDA MOVING NW AT 2 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 1007 MB. MAXIMUM SUSTAINED WIND SPEED IS 30 KT WITH GUSTS TO 40 KT. SCATTERED MODERATE/ISOLATED STRONG CONVECTION IS WITHIN 90 NM OF LINE FROM 24N69W TO 28N65W AND WITHIN 45/60 NM OF LINE FROM 22N65W TO 26N94W. PLEASE SEE THE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A WELL DEFINED 1007 MB LOW IS N OF THE YUCATAN PENINSULA NEAR 23N88W WITH A SURFACE TROUGH EXTENDING S OVER THE YUCATAN TO 21N88W. THE LOW LEVEL CENTER IS EXPOSED WITH THE ASSOCIATED CONVECTION NE OF THE LOW. SCATTERED MODERATE TO SCATTERED STRONG CONVECTION IS WITHIN 90 NM OF LINE FROM 27N85W OVER CUBA TO 22N84W. SCATTERED TO NUMEROUS SHOWERS/ISOLATED THUNDERSTORMS ARE S OF 27N E OF 87W TO OVER FLORIDA AND THROUGH THE STRAITS OF FLORIDA. UPPER WINDS ARE MARGINALLY CONDUCIVE FOR DEVELOPMENT WHILE THE SYSTEM MOVES N FOR THE NEXT COUPLE OF DAYS. THERE IS A MEDIUM CHANCE OF TROPICAL DEVELOPMENT OVER THE NEXT 48 HOURS. REGARDLESS OF TROPICAL DEVELOPMENT...THIS SYSTEM COULD PRODUCE LOCALLY HEAVY RAINFALL OVER PORTIONS OF THE NE GULF COAST... FLORIDA..AND THE SE CONUS DURING THE NEXT FEW DAYS.

...TROPICAL WAVES...

TROPICAL WAVE EXTENDS FROM 14N41W TO A WEAK 1012 MB LOW EMBEDDED WITHIN MONSOON TROUGH NEAR 10N36W MOVING W-SW 5-10 KT OVER THE PAST 24 HOURS. CLUSTERS OF SCATTERED MODERATE/STRONG CONVECTION ARE FROM 9N-14N BETWEEN 30W-40W AND IS BEING ENHANCED BY AN UPPER RIDGE.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS ACROSS AFRICA INTO THE E TROPICAL ATLC NEAR 13N17W ALONG 12N20W 12N30W THEN THROUGH THE 1012 MB LOW ASSOCIATED WITH THE TROPICAL WAVE NEAR 10N36W TO 9N41W WHERE THE ITCZ BEGINS AND CONTINUES INTO SOUTH AMERICA NEAR 4N51W. CLUSTERS OF SCATTERED MODERATE/ISOLATED STRONG CONVECTION ARE WITHIN 60 NM ALONG THE MONSOON TROUGH BETWEEN 18W-21W...FROM 5N-9N BETWEEN 26W-33W...AND FROM 8N-9N BETWEEN 36W-41W. CLUSTERS OF SCATTERED MODERATE CONVECTION ARE WITHIN 90 NM ALONG THE COAST OF AFRICA FROM 8N-12N.

...DISCUSSION...

GULF OF MEXICO...

AN UPPER LOW CENTERED ALONG THE COAST OF TEXAS NEAR 27N96W COVERS THE GULF W OF 88W SUPPORTING A SURFACE TROUGH THAT EXTENDS FROM OVER W LOUISIANA NEAR LAKE CHARLES INTO THE GULF THROUGH A 1007 MB LOW NEAR 28N94W TO 26N91W. SCATTERED TO NUMEROUS SHOWERS/ISOLATED THUNDERSTORMS ARE N OF 28N TO OVER SW LOUISIANA AND E TEXAS BETWEEN 92W-95W. AN UPPER RIDGE AXIS EXTENDS ACROSS THE CARIBBEAN AND W CUBA NEAR 22N82W THEN INTO THE W ATLC OVER MIAMI FLORIDA COVERING THE E GULF OF MEXICO E OF 88W. A SURFACE TROUGH AND 1007 MB LOW IN THE SPECIAL FEATURES IS BELOW THIS UPPER RIDGE. THE UPPER RIDGE IS PROVIDING DIFFLUENCE ALOFT TO GENERATE SCATTERED TO NUMEROUS SHOWERS/ISOLATED THUNDERSTORMS N OF 27N E OF 89W TO OVER THE SE CONUS WITH SCATTERED TO NUMEROUS SHOWERS WITH POSSIBLE ISOLATED THUNDERSTORMS S OF 21N W OF 94W AND WITHIN 75 NM OF LINE FROM 21N94W ALONG 24N91W TO 27N89W. THE LOW/SURFACE TROUGH IN THE NW GULF IS EXPECTED TO REMAIN NEARLY STATIONARY THROUGH TUE NIGHT THEN SHIFT S ON WED. THE LOW N OF THE YUCATAN IS EXPECTED TO CONTINUE N TONIGHT THEN N-NE MON AND TUE.

CARIBBEAN SEA...

AN UPPER RIDGE COVERS THE W CARIBBEAN W OF 75W AND EXTENDS A RIDGE AXIS FROM THE GULF OF HONDURAS ACROSS CUBA NEAR 22N82W INTO THE W ATLC. SCATTERED SHOWERS/ISOLATED THUNDERSTORMS ARE OVER THE NW CARIBBEAN W OF 82W. A LARGE UPPER LOW IS CENTERED JUST E GUADELOUPE COVERING THE REMAINDER OF THE E CARIBBEAN.

ISOLATED SHOWERS/THUNDERSTORMS ARE IN THE GULF OF GONAVE. MOSTLY CLEAR SKIES COVER THE CARIBBEAN E OF 80W. GENTLE TO MODERATE TRADE WINDS PREVAIL ACROSS MOST OF THE CARIBBEAN WITH FRESH TO STRONG TRADE WINDS PULSING EACH NIGHT OFF COLOMBIA AND W VENEZUELA. THE LOW N OF THE YUCATAN WILL CONTINUE TO MOVE N BUT WILL ALSO CONTINUE TO GENERATE SHOWERS/THUNDERSTORMS OVER THE NW CARIBBEAN THROUGH LATE MON.

...HISPANIOLA...

AFTERNOON THUNDERSTORMS THAT DEVELOPED INLAND OVER THE ISLAND HAVE DISSIPATED TO ISOLATED SHOWERS WITH ISOLATED SHOWERS/THUNDERSTORMS IN THE GULF OF GONAVE. LIMITED MOISTURE WITH DAYTIME HEATING COULD CONTINUE TO GENERATE AFTERNOON ISOLATED SHOWERS/THUNDERSTORMS ACROSS THE INLAND PORTIONS OF THE ISLAND AND POSSIBLY ALONG THE ATLC COAST THROUGH WED.

ATLANTIC OCEAN...

THE UPPER RIDGE AXIS EXTENDS FROM THE NW CARIBBEAN ACROSS CUBA AND MIAMI FLORIDA INTO THE W ATLC TO BEYOND 32N77W COVERING THE W ATLC W OF 73W. TROPICAL DEPRESSION ELEVEN IS JUST TO THE E OF UPPER RIDGE. AN UPPER TROUGH IS OVER THE CENTRAL ATLC N OF 24N BETWEEN 37W-52W SUPPORTING A COLD FRONT THE ENTERS THE REGION NEAR 32N38W TO 31N40W WHERE IT BECOMES STATIONARY ALONG 28N53W TO BEYOND 32N66W. SCATTERED TO NUMEROUS SHOWERS/ISOLATED THUNDERSTORMS ARE WITHIN 120 NM S OF THE FRONT BETWEEN 54W-66W. A UPPER TROUGH AXIS EXTENDS FROM 25N50W THROUGH AN UPPER LOW CENTERED JUST E OF GUADELOUPE NEAR 17N59W THEN INTO THE E CARIBBEAN. EMBEDDED WITHIN THIS UPPER TROUGH IS A SURFACE TROUGH THAT EXTENDS FROM 29N44W THROUGH A 1008 MB LOW...REMNANTS OF IDA...NEAR 24N49W ALONG 21N50W TO 18N55W. SCATTERED TO NUMEROUS SHOWERS/ISOLATED THUNDERSTORMS ARE WITHIN 90 NM OF THE SURFACE TROUGH N OF 25N. SCATTERED SHOWERS/ISOLATED THUNDERSTORMS ARE WITHIN 60 NM OF LINE FROM 30N37W TO 27N41W WITH ISOLATED SHOWERS/THUNDERSTORMS DOTTING THE AREA FROM 19N-25N BETWEEN 47W-54W. A WEAK SURFACE RIDGE COVERS THE E ATLC E OF 40W ANCHORED BY A 1019 MB HIGH NEAR 29N30W. TROPICAL DEPRESSION ELEVEN WILL CONTINUE NW TONIGHT AND MON THEN TURN N-NW AND BEGIN TO ACCELERATE MON NIGHT THROUGH LATE WED...AND IS NOT EXPECTED TO STRENGTHEN. AS TROPICAL DEPRESSION ELEVEN BEGINS TO SHIFT N OUT OF THE AREA LATE TUE THROUGH LATE WED...HIGH PRESSURE WILL BUILD IN FROM THE NE BEHIND A COLD FRONT MOVING S ACROSS NE PORTIONS OF THE AREA.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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PAW

AGXX40 KNHC 280707
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
307 AM EDT MON SEP 28 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

MODEL PREFERENCE: LATEST GFS BLENDED WITH PREVIOUS FORECAST.
LATEST TAFB NWPS FOR WAVE PARAMETERS.

A BROAD AREA OF SURFACE LOW PRESSURE IS ACROSS MUCH OF THE BASIN
FOCUSED ON TWO SEPARATE LOWS...FIRST A 1007 MB LOW CENTERED
ACROSS THE NW GULF WATERS NEAR 28N94W AND THE SECOND A 1007 MB LOW
CENTERED NORTH OF THE YUCATAN PENINSULA NEAR 23N88W. ONGOING
SCATTERED SHOWERS AND TSTMS ARE OCCURRING ALONG THE TEXAS COAST
WITHIN THE NORTHERN QUADRANT OF THE NW GULF LOW WITH A LARGER
AREA

OF ACTIVE CONVECTION OCCURRING ACROSS THE EASTERN GULF FROM
WESTERN CUBA NORTHWARD TO THE FLORIDA BIG BEND REGION AND FLORIDA
PANHANDLE. MOST OF THIS CONVECTION IS UNDER THE INFLUENCE OF
STRONG MIDDLE TO UPPER LEVEL WIND SHEAR AND IS OCCURRING WITHIN
FRESH TO OCCASIONALLY STRONG S-SE WINDS. GIVEN THE STRONGER
SOUTHERLY FLOW E OF 87W AND EASTERLY FLOW ACROSS THE NORTH-
CENTRAL GULF...SEAS ARE RANGING 4 TO 6 FT. THE REMAINDER OF THE
GULF IS EXPERIENCING WINDS MOSTLY GENTLE TO MODERATE WITH SEAS
RANGING 2 TO 4 FT. THE GFS AND ECMWF ARE COMING INTO BETTER
AGREEMENT SHOWING THE LOW OFF YUCATAN MOVING NORTHWARD BUT
WEAKENING...LEAVING THE OTHER LOW NEARLY STATIONARY. THE LOW IN
THE NW GULF IS ASSOCIATED WITH A VIGOROUS CUT OFF LOW CENTERED
OVER NE MEXICO/S TEXAS. GLOBAL MODELS INDICATE THIS WILL WEAKEN
AND LIFT NE AS A TROUGH THROUGH MID WEEK...ALLOWING THE LOW TO
WEAKEN AS WELL. THE OFFICIAL FORECAST FOLLOWS THE MORE
CONSERVATIVE GFS AND ECMWF GUIDANCE WHICH ADHERES BETTER TO
ENSEMBLE MEANS. AS A RESULT...EXPECT FRESH SOUTHERLY WINDS OVER
THE FAR EASTERN GULF THROUGH MONDAY WITH SEAS TO 8 FT...BUT
GENERALLY LIGHT TO MODERATE WINDS ELSEWHERE THROUGH THE PERIOD.

...CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...

MODEL PREFERENCE: LATEST GFS BLENDED WITH PREVIOUS FORECAST.
LATEST TAFB NWPS FOR WAVE PARAMETERS.

SURFACE RIDGING NORTH OF THE AREA IS BEING SQUEEZED BY DEVELOPING
LOW PRES BETWEEN THE CENTRAL BAHAMAS AND BERMUDA. THE GRADIENT
BETWEEN THIS RIDGE AND LOWER PRES OVER COLOMBIA IS ENOUGH TO
ALLOW

MODERATE TO FRESH TRADE WIND FLOW ACROSS MUCH OF THE CARIBBEAN
WITH OCCASIONAL STRONG FLOW IMMEDIATELY OFF THE COAST OF
COLOMBIA.

PULSES OF STRONGER TRADES WILL PERSIST THROUGH THE PERIOD.
ELSEWHERE MODERATE TO OCCASIONAL FRESH SE WINDS ARE NOTED AS WELL
NEAR THE YUCATAN CHANNEL...FLOWING INTO LOW PRES MOVING
NORTHWARD

ACROSS THE EASTERN GULF OF MEXICO. THESE WINDS WILL DIMINISH
SLIGHTLY AND REMAIN IN THE GENTLE TO MODERATE BREEZE LEVEL BEYOND
LATE MONDAY. NO MAJOR DIFFERENCES IN MODEL OUTPUT.

...SW N ATLANTIC INCLUDING THE BAHAMAS...

MODEL PREFERENCE: LATEST GFS BLENDED WITH PREVIOUS FORECAST.
LATEST TAFB NWPS FOR WAVE PARAMETERS.

T.D. ELEVEN...A 1006 MB LOW PRES IS ANALYZED NEAR 27N69W.
CONVECTION CONTINUES WITHIN THE SOUTHEAST QUADRANT AND CONTINUES
TO BECOME A LITTLE BETTER ORGANIZED DURING THE LAST 12-24 HOURS.
THE FORECAST FOR T.D. ELEVEN IS TO MAINTAIN TROPICAL DEPRESSION
STATUS WHILE DRIFTING SLOWLY NW AND WILL LIKELY DISSIPATE BY THE
END OF THE WEEK DUE TO UNFAVORABLE WINDS ALOFT. MEANWHILE A
FRONTAL BOUNDARY WILL SAG SOUTHWARD TO THE EAST OF THE AREA WITH
STRONG HIGH PRES TO THE NORTH. THIS WILL PROMOTE STRONG TO NEAR
GALE EASTERLY WINDS BEHIND THE FRONT THAT WILL IN TURN GENERATE
SWELL IN 8 TO 12 FT MOVING INTO THE WATERS N OF 29N E OF 76W
THROUGH TUESDAY NIGHT. GENTLE TO MODERATE WINDS AND SEAS OF 4 TO 6
FT IN SWELL WILL PREVAIL ELSEWHERE OUTSIDE OF THE BAHAMAS THROUGH
THE FORECAST PERIOD.

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.WARNINGS...ANY CHANGES IMPACTING COASTAL NWS OFFICES WILL BE
COORDINATED THROUGH AWIPS 12 PLANET CHAT OR BY TELEPHONE:

.GULF OF MEXICO...
NONE.

.CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN

55W AND 64W...

NONE.

.SW N ATLANTIC INCLUDING THE BAHAMAS...

NONE.

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*FOR DETAILED ZONE DESCRIPTIONS PLEASE VISIT:

[HTTP://WWW.NHC.NOAA.GOV/ABOUTAFBPROD.SHTML#OWF](http://www.nhc.noaa.gov/abouttafbprod.shtml#owf)

NOTE: GRIDDED MARINE FORECASTS ARE AVAILABLE IN THE
NATIONAL DIGITAL FORECAST DATABASE (NDFD) AT:

[HTTP://WWW.NHC.NOAA.GOV/MARINE/GRIDS.PHP](http://www.nhc.noaa.gov/marine/grids.php)

FOR ADDITIONAL INFORMATION PLEASE VISIT:

[HTTP://WWW.HURRICANE WARNINGS.GOV/MARINE](http://www.hurricanewarnings.gov/marine)

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.FORECASTER HUFFMAN. NATIONAL HURRICANE CENTER.

WTNT21 KNHC 280850
TCMAT1

TROPICAL DEPRESSION ELEVEN FORECAST/ADVISORY NUMBER 2
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC MON SEP 28 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL DEPRESSION CENTER LOCATED NEAR 27.3N 68.9W AT 28/0900Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE WEST OR 275 DEGREES AT 2 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1007 MB
MAX SUSTAINED WINDS 30 KT WITH GUSTS TO 40 KT.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 27.4N 68.9W AT 28/0900Z
AT 28/0600Z CENTER WAS LOCATED NEAR 27.3N 68.8W

FORECAST VALID 28/1800Z 27.6N 69.4W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 29/0600Z 28.0N 70.0W
MAX WIND 35 KT...GUSTS 45 KT.
34 KT... 40NE 40SE 0SW 20NW.

FORECAST VALID 29/1800Z 28.5N 70.7W
MAX WIND 35 KT...GUSTS 45 KT.
34 KT... 40NE 40SE 0SW 20NW.

FORECAST VALID 30/0600Z 29.2N 71.4W
MAX WIND 35 KT...GUSTS 45 KT.
34 KT... 40NE 40SE 0SW 20NW.

FORECAST VALID 01/0600Z 31.2N 72.3W
MAX WIND 35 KT...GUSTS 45 KT.
34 KT... 40NE 40SE 0SW 20NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 02/0600Z 36.2N 72.5W

MAX WIND 30 KT...GUSTS 40 KT.

OUTLOOK VALID 03/0600Z...ABSORBED BY FRONT

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 27.4N 68.9W

NEXT ADVISORY AT 28/1500Z

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FORECASTER ROBERTS

WTNT31 KNHC 280851
TCPAT1

BULLETIN

TROPICAL DEPRESSION ELEVEN ADVISORY NUMBER 2
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM AST MON SEP 28 2015

...DEPRESSION POORLY ORGANIZED...

SUMMARY OF 500 AM AST...0900 UTC...INFORMATION

LOCATION...27.3N 68.9W
ABOUT 420 MI...675 KM SW OF BERMUDA
MAXIMUM SUSTAINED WINDS...35 MPH...55 KM/H
PRESENT MOVEMENT...W OR 275 DEGREES AT 2 MPH...4 KM/H
MINIMUM CENTRAL PRESSURE...1007 MB...29.74 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 AM AST (0900 UTC), the center of Tropical Depression Eleven was located near latitude 27.3 North, longitude 68.9 West. The depression is moving toward the west near 2 mph (4 km/h). A gradual turn toward the northwest is expected Tuesday morning, and this general motion should continue through Wednesday.

Maximum sustained winds are near 35 mph (55 km/h) with higher gusts. Some strengthening is possible during the next couple of days, and the cyclone could become a tropical storm by Tuesday.

The estimated minimum central pressure is 1007 mb (29.74 inches).

HAZARDS AFFECTING LAND

None

NEXT ADVISORY

Next complete advisory at 1100 AM AST.

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Forecaster Roberts

FKNT21 KNHC 280852
TCANT1

TROPICAL DEPRESSION ELEVEN ICAO ADVISORY NUMBER 2
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC MON SEP 28 2015

TC ADVISORY

DTG: 20150928/0900Z
TCAC: KNHC
TC: ELEVEN
NR: 002
PSN: N2724 W06854
MOV: W 02KT
C: 1007HPA
MAX WIND: 030KT
FCST PSN + 06 HR: 281500 N2732 W06914
FCST MAX WIND + 06 HR: 030KT
FCST PSN + 12 HR: 282100 N2742 W06933
FCST MAX WIND + 12 HR: 030KT
FCST PSN + 18 HR: 290300 N2754 W06951
FCST MAX WIND + 18 HR: 035KT
FCST PSN + 24 HR: 290900 N2807 W07010
FCST MAX WIND + 24 HR: 035KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150928/1500Z

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WTNT41 KNHC 280852
TCDAT1

TROPICAL DEPRESSION ELEVEN DISCUSSION NUMBER 2
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM AST MON SEP 28 2015

Shortwave and enhanced BD-Curve infrared imagery show little change in the depression's cloud pattern this morning. Recently, however, a few bursts of deep convection are beginning to develop near the surface center. Subjective intensity estimates remain unchanged from the previous advisory as does the initial intensity of 30 kt. UW-CIMSS shear product and the SHIPS model both indicate 10-20 kt of northwesterly shear generated by a high amplitude upper-level ridge extending northward over the western Atlantic from the western Caribbean. Large-scale models show this upper-wind pattern persisting through day 3, which should inhibit any significant strengthening. Afterward, increasing southwesterly shear is expected to spread over the eastern seaboard and extreme western Atlantic waters in response to a deep-layer mid-latitude trough approaching from the west. Despite a rather harsh forecast upper-wind environment, the IVCN intensity consensus model shows slight strengthening to a tropical storm in 24 hours. Beyond the 96 hour period, the global models indicate either dissipation or the cyclone quickly becoming absorbed by the aforementioned baroclinic system. The official forecast is based on the IVCN consensus and indicates the cyclone merging with the frontal system in 5 days.

The depression's center has been a bit difficult to find this morning, and has been moving erratically, drifting westward, or 275/2 kt. The cyclone should turn toward the west-northwest later today and continue in this general direction for a couple of days due to high pressure extending over the western Atlantic. After that time, a northward turn is forecast with an increase in forward speed around day 3 in response to the above mentioned frontal system approaching the east coast of the U.S. The NHC track forecast is nudged a little to the left of the previous forecast and sides with the TVCX multi-model consensus.

FORECAST POSITIONS AND MAX WINDS

INIT 28/0900Z 27.4N 68.9W 30 KT 35 MPH
12H 28/1800Z 27.6N 69.4W 30 KT 35 MPH
24H 29/0600Z 28.0N 70.0W 35 KT 40 MPH

36H 29/1800Z 28.5N 70.7W 35 KT 40 MPH
48H 30/0600Z 29.2N 71.4W 35 KT 40 MPH
72H 01/0600Z 31.2N 72.3W 35 KT 40 MPH
96H 02/0600Z 36.2N 72.5W 30 KT 35 MPH
120H 03/0600Z...ABSORBED BY FRONT

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Forecaster Roberts

FZNT23 KNHC 280940
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
537 AM EDT MON SEP 28 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-282130-
BAHAMAS INCLUDING CAY SAL BANK-
537 AM EDT MON SEP 28 2015

.TODAY...NE WINDS 5 TO 10 KT...SHIFTING TO NW IN THE AFTERNOON.
SEAS 3 TO 4 FT.
.TONIGHT...N WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.TUE...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.TUE NIGHT...NW TO N WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.WED...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.WED NIGHT...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.THU...W TO NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.THU NIGHT...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.FRI...W TO NW WINDS 5 TO 10 KT. SEAS 3 FT.
.FRI NIGHT...W TO NW WINDS 5 TO 10 KT. SEAS 3 FT.

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AMZ119-282130-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
537 AM EDT MON SEP 28 2015

.TODAY...W TO NW WINDS 5 TO 10 KT. SEAS 5 TO 6 FT IN N TO NE
SWELL.
.TONIGHT...W WINDS 5 TO 10 KT. SEAS 5 TO 6 FT IN N TO NE SWELL.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.TUE...W WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT IN THE
AFTERNOON. SEAS 5 TO 6 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
.TUE NIGHT...W WINDS 10 TO 15 KT...BECOMING SW TO W 5 TO 10 KT
LATE. SEAS 6 FT IN NE SWELL.

.WED...SW TO W WINDS 5 TO 10 KT. SEAS 5 TO 6 FT IN NE TO E SWELL.

.WED NIGHT...SW TO W WINDS 5 TO 10 KT. SEAS 5 TO 6 FT IN NE TO E SWELL.

.THU...S TO SW WINDS 5 TO 10 KT. SEAS 5 FT IN NE TO E SWELL.

.THU NIGHT...S TO SW WINDS 5 TO 10 KT. SEAS 4 TO 5 FT IN NE TO E SWELL.

.FRI...S TO SW WINDS 5 TO 10 KT. SEAS 4 TO 5 FT IN NE TO E SWELL.

.FRI NIGHT...SW TO W WINDS 5 TO 10 KT. SEAS 4 TO 5 FT IN NE TO E SWELL.

FZNT02 KNHC 281009
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1030 UTC MON SEP 28 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC MON SEP 28.
24 HOUR FORECAST VALID 0600 UTC TUE SEP 29.
48 HOUR FORECAST VALID 0600 UTC WED SEP 30.

.WARNINGS.

.NONE.

.SYNOPSIS AND FORECAST.

...TROPICAL STORM WARNING...

.TROPICAL DEPRESSION ELEVEN NEAR 27.4N 68.9W 1007 MB AT 0900 UTC
SEP 28 MOVING W OR 275 DEG AT 2 KT. MAXIMUM SUSTAINED WINDS 30
KT GUSTS 40 KT. WITHIN 60 NM NE AND AND 45 SW SEMICIRCLE WINDS
20 TO 30 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 27N BETWEEN 65W AND
75W WINDS 20 KT OR LESS. SEAS 8 TO 12 FT PRIMARILY IN NE SWELL.
.24 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 28.0N 70.0W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE
WINDS WITHIN 40 NM E SEMICIRCLE...0 NM SW QUADRANT AND 20 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 45 NM NE SEMICIRCLE WITH
SEAS TO 13 FT. ELSEWHERE WITHIN 75 NM NE AND 45 SW SEMICIRCLE
WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 27N
BETWEEN 65W AND 73W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT
PRIMARILY IN NE SWELL.
.48 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 29.2N 71.4W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. LITTLE CHANGE IN
RADIUS OF TROPICAL STORM FORCE WINDS AND SEAS 12 FT OR GREATER.
ELSEWHERE N OF 28N BETWEEN 65W AND 71W SE WINDS 20 TO 25 KT.

SEAS 8 FT.

.72 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 31.2N 72.3W.

MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT.

EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL DEPRESSION ELEVEN NEAR 36.2N 72.5W.

MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.ATLC COLD FRONT FROM 31N36W TO 29N50W THEN STATIONARY TO 31N65W. N OF LINE 31N39W TO 25N50W TO 28N65W NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 15 FT.

.24 HOUR FORECAST STATIONARY FRONT FROM 30N35W TO 26N50W. N OF LINE FROM 39N35W TO 25N55W TO 31N63W NE TO E WINDS 20 TO 30 KT.

SEAS 10 TO 13 FT. ELSEWHERE N OF LINE FROM 29N35W TO 22N55W TO 28N65W WINDS 20 KT OR LESS. SEAS 8 TO 12 FT IN N TO NE SWELL.

.48 HOUR FORECAST STATIONARY FRONT FROM 29N30W TO 26N44W. N OF 27N BETWEEN 50W AND 60W E WINDS 20 TO 25 KT. SEAS 10 TO 11 FT.

ELSEWHERE N OF 23N E OF 64W WINDS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN N TO NE SWELL.

.CARIBBEAN S OF 14N BETWEEN 70W AND 74W E WINDS 20 TO 25 KT.

SEAS TO 9 FT.

.24 HOUR FORECAST FROM 11N TO 13N BETWEEN 70W AND 75W E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.48 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.GULF OF MEXICO LOW PRES NEAR 23N87W 1007 MB. FROM 23N TO 26N BETWEEN 82W AND 85W WINDS 20 KT OR LESS. SEAS TO 8 FT IN S SWELL.

.06 HOUR FORECAST LOW PRES 24N87W 1007 MB. FROM 24N TO 27N BETWEEN 83W AND 85W S WINDS 20 TO 25 KT. SEAS 8 FT.

.24 HOUR FORECAST LOW PRES NEAR 29N87W 1007 MB...POSSIBLE TROPICAL CYCLONE. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.48 HOUR FORECAST LOW PRES INLAND. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

FZNT02 KNHC 281016 CCA
HSFAT2

HIGH SEAS FORECAST...CORRECTED
NWS NATIONAL HURRICANE CENTER MIAMI FL
1030 UTC MON SEP 28 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC MON SEP 28.
24 HOUR FORECAST VALID 0600 UTC TUE SEP 29.
48 HOUR FORECAST VALID 0600 UTC WED SEP 30.

.WARNINGS.

...TROPICAL STORM WARNING...

.TROPICAL DEPRESSION ELEVEN NEAR 27.4N 68.9W 1007 MB AT 0900 UTC
SEP 28 MOVING W OR 275 DEG AT 2 KT. MAXIMUM SUSTAINED WINDS 30
KT GUSTS 40 KT. WITHIN 60 NM NE AND AND 45 SW SEMICIRCLE WINDS
20 TO 30 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 27N BETWEEN 65W AND
75W WINDS 20 KT OR LESS. SEAS 8 TO 12 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 28.0N 70.0W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE
WINDS WITHIN 40 NM E SEMICIRCLE...0 NM SW QUADRANT AND 20 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 45 NM NE SEMICIRCLE WITH
SEAS TO 13 FT. ELSEWHERE WITHIN 75 NM NE AND 45 SW SEMICIRCLE
WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 27N
BETWEEN 65W AND 73W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT
PRIMARILY IN NE SWELL.

.48 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 29.2N 71.4W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. LITTLE CHANGE IN
RADIUS OF TROPICAL STORM FORCE WINDS AND SEAS 12 FT OR GREATER.
ELSEWHERE N OF 28N BETWEEN 65W AND 71W SE WINDS 20 TO 25 KT.
SEAS 8 FT.

.72 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 31.2N 72.3W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. EXTENDED
OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL DEPRESSION ELEVEN NEAR 36.2N 72.5W.
MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 31N36W TO 29N50W THEN STATIONARY TO
31N65W. N OF LINE 31N39W TO 25N50W TO 28N65W NE TO E WINDS 20 TO
30 KT. SEAS 8 TO 15 FT.

.24 HOUR FORECAST STATIONARY FRONT FROM 30N35W TO 26N50W. N OF
LINE FROM 39N35W TO 25N55W TO 31N63W NE TO E WINDS 20 TO 30 KT.
SEAS 10 TO 13 FT. ELSEWHERE N OF LINE FROM 29N35W TO 22N55W TO
28N65W WINDS 20 KT OR LESS. SEAS 8 TO 12 FT IN N TO NE SWELL.

.48 HOUR FORECAST STATIONARY FRONT FROM 29N30W TO 26N44W. N OF
27N BETWEEN 50W AND 60W E WINDS 20 TO 25 KT. SEAS 10 TO 11 FT.
ELSEWHERE N OF 23N E OF 64W WINDS WINDS 20 KT OR LESS. SEAS 8 TO
10 FT IN N TO NE SWELL.

.CARIBBEAN S OF 14N BETWEEN 70W AND 74W E WINDS 20 TO 25 KT.
SEAS TO 9 FT.

.24 HOUR FORECAST FROM 11N TO 13N BETWEEN 70W AND 75W E WINDS 20
TO 25 KT. SEAS TO 8 FT.

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.GULF OF MEXICO LOW PRES NEAR 23N87W 1007 MB. FROM 23N TO 26N
BETWEEN 82W AND 85W WINDS 20 KT OR LESS. SEAS TO 8 FT IN S SWELL.

.06 HOUR FORECAST LOW PRES 24N87W 1007 MB. FROM 24N TO 27N
BETWEEN 83W AND 85W S WINDS 20 TO 25 KT. SEAS 8 FT.

.24 HOUR FORECAST LOW PRES NEAR 29N87W 1007 MB...POSSIBLE
TROPICAL CYCLONE. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.48 HOUR FORECAST LOW PRES INLAND. WINDS 20 KT OR LESS. SEAS
LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 281020

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1030 UTC MON SEP 28 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0600 UTC SEP 28

24 HOUR FORECAST VALID 0600 UTC SEP 29

48 HOUR FORECAST VALID 0600 UTC SEP 30

.WARNINGS.

...STORM WARNING...

.LOW 59N62W 984 MB MOVING SE 25 KT BUT WILL TURN NE. WITHIN 300 NM E QUADRANT WINDS 25 TO 35 KT. SEAS 8 TO 12 FT. ELSEWHERE OVER FORECAST WATERS FROM 43N TO 64N BETWEEN 46W AND 65W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.18 HOUR FORECAST LOW 61N56W 979 MB WITH A FRONT FROM CENTER 61N52W TO 58N46W. WITHIN 180 NM N AND NE OF THE FRONT WINDS 35 TO 50 KT. SEAS 12 TO 21 FT.

.24 HOUR FORECAST LOW 63N53W 981 MB. WITHIN 120 NM S AND SE SEMICIRCLES WINDS 35 TO 45 KT. SEAS 12 TO 20 FT. ELSEWHERE WITHIN 240 NM OF CENTER WINDS 25 TO 35 KT. SEAS 8 TO 15 FT.

.36 HOUR FORECAST LOW INLAND OVER GREENLAND WITH CONDITIONS DIMINISHED.

...GALE WARNING...

.FROM 31N TO 36N BETWEEN 48W AND 71W AREA OF E WINDS 25 TO 35 KT. SEAS 9 TO 16 FT.

.24 HOUR FORECAST FROM 31N TO 37N BETWEEN 56W AND 71W AREA OF E WINDS 25 TO 35 KT. SEAS 9 TO 16 FT.

.48 HOUR FORECAST WITHIN 480 NM SW AND W OF A LINE FROM 31N46W TO 40N61W AREA OF E TO SE WINDS 20 TO 30 KT. SEAS 8 TO 12 FT.

...GALE WARNING...

.LOW E OF THE FORECAST AREA NEAR 45N29W 1002 MB MOVING SE 15 KT. OVER FORECAST WATERS WITHIN 600 NM SW QUADRANT WINDS 25 TO 40 KT. SEAS 10 TO 18 FT.

.24 HOUR FORECAST LOW WELL E OF THE FORECAST AREA WITH CONDITIONS DIMINISHED.

...GALE WARNING...

.24 HOUR FORECAST NEW LOW 59N43W 997 MB WITH A FRONT FROM CENTER TO 57N38W TO 51N39W. OVER FORECAST WATERS WITHIN 360 NM E QUADRANT AND ELSEWHERE WITHIN 300 NM E OF THE FRONT WINDS 25 TO

40 KT. SEAS 8 TO 15 FT.

.48 HOUR FORECAST LOW WELL E OF THE FORECAST AREA. OVER FORECAST WATERS N OF 54N AND E OF 45W AREA OF SW WINDS 20 TO 30 KT. SEAS 8 TO 12 FT.

.SYNOPSIS AND FORECAST.

.LOW 62N40W 1002 MB MOVING E 10 KT. OVER FORECAST WATERS WITHIN 180 NM S QUADRANT WINDS TO 25 KT. SEAS TO 10 FT.

.24 HOUR FORECAST LOW DISSIPATED.

.48 HOUR FORECAST NEW LOW 52N58W 1008 MB. OVER FORECAST WATERS WITHIN 360 NM S AND SE SEMICIRCLES WINDS 20 TO 30 KT. SEAS TO 10 FT.

.48 HOUR FORECAST NEW LOW 61N55W 1006 MB. WITHIN 180 NM S AND SE SEMICIRCLES WINDS TO 25 KT. SEAS TO 8 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS W OF A LINE FROM 49N48W TO 61N58W.

.24 HOUR FORECAST DENSE FOG FROM 51N TO 60N BETWEEN 36W AND 45W.

.48 HOUR FORECAST DENSE FOG WITHIN 480 NM S OF A LINE FROM 61N35W TO 59N47W TO 54N58W.

.DENSE FOG. 24 HOUR FORECAST VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS WITHIN 240 NM OF 52N53W.

.48 HOUR FORECAST AREA ABSORBED INTO AREA OF FOG DESCRIBED ABOVE.

.HIGH 40N59W 1031 MB MOVING SE 15 KT.

.24 HOUR FORECAST HIGH 37N50W 1030 MB.

.48 HOUR FORECAST HIGH 42N52W 1028 MB.

.FORECASTER VUKITS. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

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.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 281151
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT MON SEP 28 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1015 UTC.

...SPECIAL FEATURES...

TROPICAL DEPRESSION ELEVEN IS CENTERED NEAR 27.3N 68.9W AT 28/0900 UTC OR ABOUT 365 NM SW OF BERMUDA MOVING W AT 2 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 1007 MB. MAXIMUM SUSTAINED WIND SPEED IS 30 KT WITH GUSTS TO 40 KT. SCATTERED MODERATE TO SCATTERED STRONG CONVECTION IS WITHIN 120/150 NM OF LINE FROM 22N70W TO 27N67W. PLEASE SEE THE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...TROPICAL WAVES...

TROPICAL WAVE EXTENDS FROM 14N41W TO 10N37W MOVING W-SW 5-10 KT OVER THE PAST 24 HOURS. ACTIVITY IN THE VICINITY OF THE WAVE IS ASSOCIATED WITH A 1012 MB LOW NEAR 11N36W AND IS BEING ENHANCED BY AN UPPER RIDGE. SEE MONSOON TROUGH SECTION BELOW.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS ACROSS AFRICA INTO THE E TROPICAL ATLC NEAR 14N17W ALONG 13N21W 12N33W THEN THROUGH THE 1012 MB LOW NEAR 11N36W TO 9N41W. SCATTERED MODERATE/STRONG CONVECTION IS WITHIN 120 NM E OF THE LOW FROM 10N-11N. SCATTERED MODERATE/ISOLATED STRONG CONVECTION IS WITHIN 150/180 NM N OF THE MONSOON TROUGH BETWEEN 30W-40W. CLUSTERS OF SCATTERED MODERATE/ISOLATED STRONG CONVECTION ARE FROM 6N-15N BETWEEN 20W-30W AND FROM 5N TO THE MONSOON TROUGH BETWEEN 30W-37W. CLUSTERS OF SCATTERED MODERATE CONVECTION ARE WITHIN 120 NM ALONG THE COAST OF AFRICA FROM 7N-12N.

...DISCUSSION...

GULF OF MEXICO...

AN UPPER LOW CENTERED ALONG THE COAST OF TEXAS NEAR 29N96W COVERS THE GULF W OF 89W SUPPORTING A SURFACE TROUGH THAT EXTENDS FROM OVER W LOUISIANA NEAR LAKE CHARLES INTO THE GULF THROUGH A 1007 MB LOW NEAR 28N94W TO 25N93W. SCATTERED SHOWERS/ ISOLATED THUNDERSTORMS ARE N OF 27N TO OVER SW LOUISIANA AND E TEXAS BETWEEN 92W-96W. AN UPPER RIDGE AXIS EXTENDS ACROSS THE W CARIBBEAN AND W CUBA NEAR 22N84 THEN INTO THE W ATLC OVER MIAMI FLORIDA COVERING THE E GULF OF MEXICO E OF 89W. A 1007 MB LOW IS N OF THE YUCATAN PENINSULA NEAR 24N88W WITH A SURFACE TROUGH EXTENDING S OVER THE YUCATAN TO 20N88W. THE LOW LEVEL CENTER IS EXPOSED WITH THE ASSOCIATED CONVECTION NE OF THE LOW. SCATTERED MODERATE TO SCATTERED STRONG CONVECTION IS WITHIN 120 NM OF LINE FROM 21N83W ACROSS CUBA TO OVER THE N GULF COAST NEAR 30N85W. UPPER-LEVEL WINDS ARE NOT FAVORABLE FOR DEVELOPMENT WHILE THE SYSTEM MOVES N FOR THE NEXT COUPLE OF DAYS THEREFORE...THERE IS A LOW CHANCE OF TROPICAL DEVELOPMENT OVER THE NEXT 48 HOURS. REGARDLESS OF TROPICAL DEVELOPMENT...THIS SYSTEM COULD PRODUCE LOCALLY HEAVY RAINFALL OVER PORTIONS OF THE NE GULF COAST... FLORIDA..AND THE SE CONUS DURING THE NEXT FEW DAYS. THE LOW/SURFACE TROUGH IN THE NW GULF IS EXPECTED TO REMAIN NEARLY STATIONARY THROUGH TUE NIGHT THEN DRIFT E ON WED. THE LOW IN THE SPECIAL FEATURES IS EXPECTED TO CONTINUE N THIS MORNING THEN N-NE THROUGH TUE.

CARIBBEAN SEA...

AN UPPER RIDGE COVERS THE W CARIBBEAN W OF 75W AND EXTENDS A RIDGE AXIS FROM THE GULF OF HONDURAS ACROSS CUBA NEAR 22N84W INTO THE GULF OF MEXICO AND THEN THE W ATLC. SCATTERED SHOWERS/ ISOLATED THUNDERSTORMS ARE OVER THE NW CARIBBEAN W OF 83W. A LARGE UPPER LOW IS CENTERED JUST E GUADELOUPE COVERING THE REMAINDER OF THE E CARIBBEAN. MOSTLY CLEAR SKIES COVER THE CARIBBEAN E OF 83W. GENTLE TO MODERATE TRADE WINDS PREVAIL ACROSS MOST OF THE CARIBBEAN THROUGH WED. FRESH TO STRONG TRADE WINDS WILL PULSE EACH NIGHT OFF COLOMBIA AND W VENEZUELA THROUGH TUE. THE SHOWERS/THUNDERSTORMS OVER THE NW CARIBBEAN AND ENHANCED BY THE UPPER RIDGE WILL GRADUALLY DISSIPATE FROM S TO N THROUGH TUE.

...HISPANIOLA...

SKIES HAVE ONCE AGAIN CLEARED ACROSS THE ISLAND THIS MORNING. LIMITED MOISTURE WITH DAYTIME HEATING COULD CONTINUE TO GENERATE AFTERNOON ISOLATED SHOWERS/THUNDERSTORMS ACROSS THE INLAND PORTIONS OF THE ISLAND AND POSSIBLY ALONG THE ATLC COAST THROUGH WED.

ATLANTIC OCEAN...

THE UPPER RIDGE AXIS EXTENDS FROM THE NW CARIBBEAN ACROSS CUBA AND MIAMI FLORIDA INTO THE W ATLC TO BEYOND 32N76W COVERING THE W ATLC W OF 73W. TROPICAL DEPRESSION ELEVEN IS JUST TO THE E OF THIS UPPER RIDGE. AN UPPER TROUGH IS OVER THE CENTRAL ATLC N OF 27N BETWEEN 34W-60W SUPPORTING A COLD FRONT THE ENTERS THE REGION NEAR 32N35W TO 28N50W WHERE IT BECOMES STATIONARY ALONG 29N58W TO BEYOND 32N66W. SCATTERED TO NUMEROUS SHOWERS/ISOLATED THUNDERSTORMS ARE FROM 27N-31N BETWEEN 58W-63W WITH SCATTERED SHOWERS/ISOLATED THUNDERSTORMS WITHIN 120 NM OF THE COLD FRONT E OF 48W AND FROM 29N-32N BETWEEN 63W-67W. A UPPER TROUGH AXIS EXTENDS FROM 27N48W THROUGH AN UPPER LOW CENTERED JUST E OF GUADELOUPE NEAR 17N59W THEN INTO THE E CARIBBEAN. EMBEDDED UNDER THIS UPPER TROUGH IS A SURFACE TROUGH THAT EXTENDS FROM 27N47W THROUGH A 1009 MB LOW...REMNANTS OF IDA...NEAR 24N50W TO 18N53W. CLUSTERS OF SCATTERED SHOWERS/ISOLATED THUNDERSTORMS ARE WITHIN 150 NM E OF THE SURFACE TROUGH WITH ISOLATED SHOWERS/ THUNDERSTORMS FROM 19N-21N BETWEEN 54W-57W. A WEAKENING SURFACE RIDGE COVERS THE E ATLC N OF 22N E OF THE FRONT ANCHORED BY A 1019 MB HIGH NEAR 30N30W. TROPICAL DEPRESSION ELEVEN WILL STRENGTHEN TO A TROPICAL STORM TONIGHT AS IT MOVES NW THROUGH TUE THEN TURN N-NW LATE WED AS IT MOVES N OF THE AREA.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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PAW/ERA

WTNT31 KNHC 281450
TCPAT1

BULLETIN

TROPICAL DEPRESSION ELEVEN ADVISORY NUMBER 3
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 AM AST MON SEP 28 2015

...DEPRESSION EXPECTED TO BECOME A TROPICAL STORM LATER TODAY...

SUMMARY OF 1100 AM AST...1500 UTC...INFORMATION

LOCATION...27.8N 69.6W
ABOUT 425 MI...680 KM SW OF BERMUDA
MAXIMUM SUSTAINED WINDS...35 MPH...55 KM/H
PRESENT MOVEMENT...WNW OR 295 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...1006 MB...29.71 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 AM AST (1500 UTC), the center of Tropical Depression Eleven was located near latitude 27.8 North, longitude 69.6 West. The depression is moving toward the west-northwest near 5 mph (7 km/h). A slow west-northwestward to northwestward motion is expected during the next couple of days.

Maximum sustained winds are near 35 mph (55 km/h) with higher gusts. Strengthening is forecast, and the depression is expected to become a tropical storm later today. An Air Force Reserve Hurricane Hunter aircraft is scheduled to investigate the depression this afternoon.

The estimated minimum central pressure is 1006 mb (29.71 inches).

HAZARDS AFFECTING LAND

None

NEXT ADVISORY

Next complete advisory at 500 PM AST.

\$\$

Forecaster Kimberlain

FKNT21 KNHC 281450
TCANT1

TROPICAL DEPRESSION ELEVEN ICAO ADVISORY NUMBER 3
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1500 UTC MON SEP 28 2015

TC ADVISORY

DTG: 20150928/1500Z
TCAC: KNHC
TC: ELEVEN
NR: 003
PSN: N2748 W06936
MOV: WNW 04KT
C: 1006HPA
MAX WIND: 030KT
FCST PSN + 06 HR: 282100 N2800 W06952
FCST MAX WIND + 06 HR: 035KT
FCST PSN + 12 HR: 290300 N2812 W07009
FCST MAX WIND + 12 HR: 040KT
FCST PSN + 18 HR: 290900 N2824 W07027
FCST MAX WIND + 18 HR: 040KT
FCST PSN + 24 HR: 291500 N2839 W07048
FCST MAX WIND + 24 HR: 040KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150928/2100Z

\$\$

WTNT21 KNHC 281450
TCMAT1

TROPICAL DEPRESSION ELEVEN FORECAST/ADVISORY NUMBER 3
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1500 UTC MON SEP 28 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL DEPRESSION CENTER LOCATED NEAR 27.8N 69.6W AT 28/1500Z
POSITION ACCURATE WITHIN 20 NM

PRESENT MOVEMENT TOWARD THE WEST-NORTHWEST OR 295 DEGREES AT 4
KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1006 MB
MAX SUSTAINED WINDS 30 KT WITH GUSTS TO 40 KT.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 27.8N 69.6W AT 28/1500Z
AT 28/1200Z CENTER WAS LOCATED NEAR 27.6N 69.1W

FORECAST VALID 29/0000Z 28.1N 70.0W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 60NE 40SE 0SW 0NW.

FORECAST VALID 29/1200Z 28.5N 70.6W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 70NE 40SE 0SW 0NW.

FORECAST VALID 30/0000Z 29.1N 71.4W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 70NE 60SE 20SW 30NW.

FORECAST VALID 30/1200Z 29.6N 72.0W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 70NE 60SE 30SW 40NW.

FORECAST VALID 01/1200Z 32.0N 72.9W
MAX WIND 35 KT...GUSTS 45 KT.
34 KT... 60NE 70SE 0SW 50NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 02/1200Z 37.7N 72.9W...POST-TROPICAL
MAX WIND 35 KT...GUSTS 45 KT.

OUTLOOK VALID 03/1200Z...DISSIPATED

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 27.8N 69.6W

NEXT ADVISORY AT 28/2100Z

\$\$

FORECASTER KIMBERLAIN

WTNT41 KNHC 281451
TCDAT1

TROPICAL DEPRESSION ELEVEN DISCUSSION NUMBER 3
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 AM AST MON SEP 28 2015

Satellite imagery indicates that the depression's overall cloud pattern has become better organized since yesterday despite persistent north- northwesterly shear of about 20 kt. The exposed low-level center is located near the northwestern tip of a curved band over the southeastern quadrant of the circulation. However, satellite data indicate that the low- to mid-level centers have recently become more separated. Dvorak intensity estimates are a consensus T2.0/30 kt from TAFB and SAB, so the initial intensity is held at 30 kt.

Smoothing fixes over the last 12 hours yields an initial motion of 300/04, a little faster than before. The depression is embedded in low- to mid-level southeasterly flow around a ridge to its northeast, with northwesterly flow aloft. This synoptic pattern should only favor a slow northwestward motion for the next couple of days. After 48 hours, the cyclone should reach the western end of the low- to mid-level subtropical ridge and begin to respond to the southerly and southwesterly flow ahead of a baroclinic trough nearing the U.S. east coast. This change to the steering should result in a gradual northward turn with increasing forward speed. The new track forecast is a little left of the previous one at 48 hours and a little faster, close to a blend of the GFS and ECWMF model solutions.

GFS- and ECMWF-based SHIPS model output indicates a continuation of moderately strong north-northwesterly shear over the cyclone for the next day or so. Even though other large-scale factors are generally conducive for intensification during this time, shear of this magnitude suggests that only slow intensification is possible. While the shear should decrease some by 36 hours, other environmental factors are not forecast to be as conducive and little further strengthening is indicated. Large-scale models depict the cyclone merging with a frontal zone offshore of the Mid-Atlantic or New England coasts by 96 hours, and the system is therefore shown to be post-tropical at that time. An alternate lower probability scenario is that the cyclone could race ahead of the frontal boundary and retain its tropical characteristics for a bit longer. The new intensity forecast is above the previous one through 24 hours and near the multi-model consensus but below the statistical-dynamical

guidance after that time due to more reliance on the global models which show little further intensification.

FORECAST POSITIONS AND MAX WINDS

INIT 28/1500Z 27.8N 69.6W 30 KT 35 MPH
12H 29/0000Z 28.1N 70.0W 40 KT 45 MPH
24H 29/1200Z 28.5N 70.6W 40 KT 45 MPH
36H 30/0000Z 29.1N 71.4W 40 KT 45 MPH
48H 30/1200Z 29.6N 72.0W 40 KT 45 MPH
72H 01/1200Z 32.0N 72.9W 35 KT 40 MPH
96H 02/1200Z 37.7N 72.9W 35 KT 40 MPH...POST-TROPICAL
120H 03/1200Z...DISSIPATED

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Forecaster Kimberlain

FZNT23 KNHC 281529
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1129 AM EDT MON SEP 28 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-290330-
BAHAMAS INCLUDING CAY SAL BANK-
1129 AM EDT MON SEP 28 2015

.THIS AFTERNOON...NE WINDS 5 TO 10 KT...SHIFTING TO NW IN THE
AFTERNOON. SEAS 3 TO 4 FT.
.TONIGHT...N WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.
.TUE...NW WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.
.TUE NIGHT...NW TO N WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.
.WED...NW WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.
.WED NIGHT...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.THU...W TO NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.THU NIGHT...NW WINDS 5 TO 10 KT. SEAS 3 TO 4 FT.
.FRI...W TO NW WINDS 5 TO 10 KT. SEAS 3 FT.
.FRI NIGHT...W TO NW WINDS 5 TO 10 KT. SEAS 3 FT.

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AMZ119-290330-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1129 AM EDT MON SEP 28 2015

.THIS AFTERNOON...W TO NW WINDS 5 TO 10 KT. SEAS 5 TO 7 FT IN N
TO NE SWELL.
.TONIGHT...W WINDS 5 TO 10 KT. SEAS 5 TO 7 FT IN N TO NE SWELL.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.TUE...W WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT IN THE
AFTERNOON. SEAS 6 TO 7 FT IN NE SWELL. SCATTERED SHOWERS AND
ISOLATED TSTMS.
.TUE NIGHT...W WINDS 10 TO 15 KT...BECOMING SW TO W 5 TO 10 KT

LATE. SEAS 6 TO 7 FT IN NE SWELL.

.WED...SW TO W WINDS 5 TO 10 KT. SEAS 6 TO 7 FT IN NE TO E SWELL.

.WED NIGHT...SW TO W WINDS 5 TO 10 KT. SEAS 5 TO 6 FT IN NE TO E SWELL.

.THU...S TO SW WINDS 5 TO 10 KT. SEAS 5 TO 6 FT IN NE TO E SWELL.

.THU NIGHT...S TO SW WINDS 5 TO 10 KT. SEAS 5 FT IN NE TO E SWELL.

.FRI...S TO SW WINDS 5 TO 10 KT. SEAS 4 TO 5 FT IN NE TO E SWELL.

.FRI NIGHT...SW TO W WINDS 5 TO 10 KT. SEAS 4 TO 5 FT IN NE TO E SWELL.

FZNT02 KNHC 281554
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1630 UTC MON SEP 28 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1200 UTC MON SEP 28.
24 HOUR FORECAST VALID 1200 UTC TUE SEP 29.
48 HOUR FORECAST VALID 1200 UTC WED SEP 30.

.WARNINGS.

...TROPICAL STORM WARNING...

.TROPICAL DEPRESSION ELEVEN NEAR 27.8N 69.6W 1006 MB AT 1500 UTC SEP 28 MOVING WNW OR 295 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT. WITHIN 60 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 30 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 27N BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 12 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 28.5N 70.6W. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 0 NM W SEMICIRCLE...70 NM NE QUADRANT AND 40 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 60 NM N SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 75 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 26N BETWEEN 65W AND 73W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.48 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 29.6N 72.0W. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM NE QUADRANT...60 NM SE QUADRANT...30 NM SW QUADRANT...AND 40 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 60 NM N SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 90 NM NE AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA 27N BETWEEN 67W AND 73W WINDS 20 TO 25 KT. SEAS 8 TO 10 FT IN MIXED SWELL.

.72 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 32.0N 72.9W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST POST TROPICAL ELEVEN NEAR 37.7N 72.9W. MAXIMUM
SUSTAINED WINDS 35 KT GUSTS 45 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 29N35W TO 27N46W THEN STATIONARY TO
31N65W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 15 FT.
.24 HOUR FORECAST STATIONARY FRONT FROM 29N35W TO 26N45W THEN
DISSIPATING TO 26N55W. N OF 25N E OF 62W NE TO E WINDS 20 TO 25
KT. SEAS 8 TO 13 FT. ELSEWHERE N OF 22N E OF 65W WINDS 20 KT OR
LESS. SEAS 8 TO 10 FT IN N TO NE SWELL.
.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 28N35W TO
25N48W. N OF 27N BETWEEN 50W AND 61W E TO SE WINDS 20 TO 25 KT.
SEAS 10 FT. ELSEWHERE N OF 24N E OF 65W WINDS 20 KT OR LESS.
SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13N BETWEEN 71W AND 73W WINDS 20 KT OR LESS.
SEAS TO 8 FT IN E SWELL.
.12 HOUR FORECAST S OF 13N BETWEEN 70W AND 75W E WINDS 20 TO 25
KT. SEAS TO 8 FT.
.24 HOUR FORECAST FROM 11N TO 13N BETWEEN 74W AND 77W NE TO E
WINDS 20 TO 25 KT. SEAS TO 8 FT.
.48 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.GULF OF MEXICO LOW PRES NEAR 24N87W 1007 MB. FROM 24N TO 27N
BETWEEN 83W AND 85W S WINDS 20 TO 25 KT. SEAS TO 8 FT.
.24 HOUR FORECAST LOW PRES NEAR 29N87W 1007 MB. WINDS 20 KT OR
LESS. SEAS LESS THAN 8 FT.
.48 HOUR FORECAST LOW PRES INLAND. WINDS 20 KT OR LESS. SEAS
LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 281555

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1630 UTC MON SEP 28 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 1200 UTC SEP 28

24 HOUR FORECAST VALID 1200 UTC SEP 29

48 HOUR FORECAST VALID 1200 UTC SEP 30

.WARNINGS.

...STORM WARNING...

.LOW 60N58W 985 MB MOVING NE 15 KT. OVER FORECAST WATERS FROM 42N TO 64N W OF 54W WINDS 25 TO 35 KT. SEAS TO 12 FT.

.12 HOUR FORECAST LOW 62N55W 981 MB. WITHIN 120 NM N...240 NM E AND 300 NM SE QUADRANTS WINDS 40 TO 55 KT. SEAS 12 TO 20 FT.

ELSEWHERE WITHIN 120 NM W AND 180 NM N...E AND S QUADRANTS AND 180 NM E OF A WARM FRONT FROM 47N40W TO 59N44W WINDS 25 TO 40 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW INLAND OVER GREENLAND 64N51W 989 MB.

WITHIN 180 NM S AND E QUADRANTS AND E OF A LINE FROM 49N36W TO 61N38W TO 63N36W WINDS 25 TO 40 KT. SEAS TO 14 FT.

.36 HOUR FORECAST LOW DISSIPATED WITH CONDITIONS E OF AREA.

...GALE WARNING...

.OVER FORECAST WATERS FROM 31N TO 36N BETWEEN 40W AND 75W WINDS 25 TO 35 KT. SEAS 9 TO 17 FT.

.24 HOUR FORECAST FROM 31N TO 36N BETWEEN 47W AND 71W WINDS 25 TO 35 KT. SEAS TO 15 FT.

.48 HOUR FORECAST S OF 40N BETWEEN 51W AND 72W WINDS 20 TO 30 KT. SEAS 8 TO 11 FT.

.SYNOPSIS AND FORECAST.

.LOW E OF THE AREA NEAR 47N26W 1007 MB MOVING SE 15 KT. OVER FORECAST WATERS FROM 31N TO 43N E OF 40W WINDS TO 25 KT. SEAS 11 TO 16 FT.

.24 HOUR FORECAST LOW AND CONDITIONS E OF AREA.

.48 HOUR FORECAST LOW E OF AREA NEAR 40N29W 1005 MB. FROM 37N TO 46N W OF 39W WINDS TO 25 KT. SEAS TO 10 FT.

.48 HOUR FORECAST NEW LOW 60N66W 1006 MB. OVER FORECAST WATERS WITHIN 240 NM SE QUADRANT AND WITHIN 600 NM E OF A FRONT FROM 61N39W TO 55N50W TO 50N56W WINDS 20 TO 30 KT. SEAS 8 TO 10 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST

WATERS W OF A LINE FROM 50N50W TO 56N51W TO 61N62W.
.24 HOUR FORECAST DENSE FOG FROM 52N TO 60N W OF 41W AND W OF A
LINE FROM 46N49W TO 55N52W.
.48 HOUR FORECAST DENSE FOG WITHIN 540 NM E OF A LINE FROM
45N50W TO 53N54W TO 60N45W TO 61N37W AND N OF 42N W OF 67W.
.HIGH 38N53W 1031 MB NEARLY STATIONARY.
.24 HOUR FORECAST HIGH 38N52W 1031 MB.
.48 HOUR FORECAST HIGH 42N52W 1029 MB.
.FORECASTER MUSER. OCEAN PREDICTION CENTER.
NATIONAL HURRICANE CENTER MIAMI FL
ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.
SYNOPSIS VALID 1200 UTC MON SEP 28.
24 HOUR FORECAST VALID 1200 UTC TUE SEP 29.
48 HOUR FORECAST VALID 1200 UTC WED SEP 30.
.WARNINGS.
...TROPICAL STORM WARNING...
.TROPICAL DEPRESSION ELEVEN NEAR 27.8N 69.6W 1006 MB AT 1500 UTC
SEP 28 MOVING WNW OR 295 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 30
KT GUSTS 40 KT. WITHIN 60 NM NE AND 45 SW SEMICIRCLE WINDS
20 TO 30 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 27N BETWEEN 65W AND
75W WINDS 20 KT OR LESS. SEAS 8 TO 12 FT PRIMARILY IN NE SWELL.
.24 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 28.5N 70.6W.
MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE
WINDS WITHIN 0 NM W SEMICIRCLE...70 NM NE QUADRANT AND 40 NM SE
QUADRANT. SEAS 12 FT OR GREATER WITHIN 60 NM N SEMICIRCLE WITH
SEAS TO 13 FT. ELSEWHERE WITHIN 75 NM NE AND 45 SW SEMICIRCLE
WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 26N
BETWEEN 65W AND 73W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT
PRIMARILY IN NE SWELL.
.48 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 29.6N 72.0W.
MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE
WINDS WITHIN 70 NM NE QUADRANT...60 NM SE QUADRANT...30 NM SW
QUADRANT...AND 40 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN
60 NM N SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 90 NM NE
AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 10 TO 12 FT.
REMAINDER OF AREA 27N BETWEEN 67W AND 73W WINDS 20 TO 25 KT.
SEAS 8 TO 10 FT IN MIXED SWELL.
.72 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 32.0N 72.9W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST POST TROPICAL ELEVEN NEAR 37.7N 72.9W. MAXIMUM
SUSTAINED WINDS 35 KT GUSTS 45 KT.
FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 29N35W TO 27N46W THEN STATIONARY TO 31N65W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 15 FT.

.24 HOUR FORECAST STATIONARY FRONT FROM 29N35W TO 26N45W THEN DISSIPATING TO 26N55W. N OF 25N E OF 62W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 13 FT. ELSEWHERE N OF 22N E OF 65W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN N TO NE SWELL.

.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 28N35W TO 25N48W. N OF 27N BETWEEN 50W AND 61W E TO SE WINDS 20 TO 25 KT. SEAS 10 FT. ELSEWHERE N OF 24N E OF 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13N BETWEEN 71W AND 73W WINDS 20 KT OR LESS. SEAS TO 8 FT IN E SWELL.

.12 HOUR FORECAST S OF 13N BETWEEN 70W AND 75W E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST FROM 11N TO 13N BETWEEN 74W AND 77W NE TO E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.48 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.GULF OF MEXICO LOW PRES NEAR 24N87W 1007 MB. FROM 24N TO 27N BETWEEN 83W AND 85W S WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST LOW PRES NEAR 29N87W 1007 MB. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.48 HOUR FORECAST LOW PRES INLAND. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

AGXX40 KNHC 281737
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
137 PM EDT MON SEP 28 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. HIGH CONFIDENCE.

A CLOSED OFF UPPER LEVEL LOW IS DRIFTING EASTWARD ALONG THE NE
TEXAS COAST WITH A NEGATIVELY TILTED UPPER TROUGH PIVOTING
NORTHWARD OVER THE NE GULF. 1007 MB SURFACE LOW PRES CENTERED NEAR
25N87W IS MOVING NNE FROM NORTHERN YUCATAN AND WILL REACH THE
FLORIDA BIG BEND AREA EARLY TUE BEFORE MOVING INLAND AND
DISSIPATING. THE STRONG WESTERN UPPER FLOW IS SHEARING THE
CONVECTION TO THE EAST OF THE CENTER...BUT ALSO ENHANCING THE
THUNDERSTORMS OVER THE EASTERN GULF. STRONG SOUTHERLY SQUALLS
ARE
LIKELY IN THE EASTERN GULF THROUGH TONIGHT AS THE LOW PRES SHIFTS
NORTH.

THROUGH MID WEEK...GLOBAL MODELS ARE IN DECENT AGREEMENT SHOWING
THE UPPER LOW OPENING INTO A TROUGH AND WEAKENING AS IT SHIFTS
EAST ACROSS THE LOWER MISSISSIPPI VALLEY AND NORTHERN GULF. THE
LOW PRES OVER THE NW GULF WILL WEAKEN TO A TROUGH AND DRIFT ACROSS
THE GULF...LEAVING A DRIER PATTERN WITH GENTLE TO MODERATE W FLOW
VEERING NW TO N. A WEAK COLD FRONT IS EXPECTED TO MOVE INTO THE
NORTHERN GULF LATE THU NIGHT...THEN STALL AND BECOME DIFFUSE OVER
THE CENTRAL GULF SAT. NO MAJOR DIFFERENCES IN MODEL OUTPUT.

...CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. HIGH CONFIDENCE.

A 15 UTC ASCAT PASS INDICATED FRESH TRADE WINDS OFF
COLOMBIA...INDICATIVE OF FRESH TO STRONG FLOW EXPECTED OFF WESTERN
VENEZUELA AND NE COLOMBIA THROUGH TONIGHT AS A SURFACE RIDGE

REACHES FROM THE N CENTRAL ATLC TO THE S CENTRAL CARIBBEAN. THE RIDGE IN THE ATLC WILL WEAKEN THROUGH TONIGHT HOWEVER...AS THE REMNANT LOW OF T.S. IDA DRIFTS WEST TOWARD A DEVELOPING T.D. ELEVEN LOCATED NE OF THE BAHAMAS. THIS WILL RESULT IN THE TRADE WINDS DIMINISHING ACROSS THE BASIN FOR THE REMAINDER OF THE WEEK. NO MAJOR DIFFERENCES IN MODEL OUTPUT.

...SW N ATLANTIC INCLUDING THE BAHAMAS...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR WAVE PARAMETERS. MEDIUM CONFIDENCE.

THE MAIN FORECAST ISSUE CONCERNS THE DEVELOPMENT...TRACK AND INTENSITY OF T.D. ELEVEN CENTERED NEAR 27N69W. T.D. ELEVEN HAS MAX WINDS TO 30 KT WITH GUSTS TO 40 KT...AND IS FORECAST TO INTENSIFY TO TROPICAL STORM STRENGTH WITH 40 KT BY THIS EVENING AS IT MOVES SLOWLY NNW. A BROAD SWATH OF CONVECTION COVERS THE AREA EAST OF 70W. ELSEWHERE TO THE WEST AND SOUTHWEST OF T.D. ELEVEN...GENERALLY GENTLE TO MODERATE WINDS PREVAIL. BUOY OBSERVATIONS INDICATE NE SWELL GENERATED FROM A LARGE SWATH OF STRONG E WINDS OVER THE SUBTROPICAL ATLC WATERS HAS REACHED FARTHER WEST THAN PREVIOUSLY ANTICIPATED...AND INITIAL FORECAST GRIDS HAVE BEEN ADJUSTED ACCORDINGLY. WAVE GUIDANCE INDICATES THE SWELL WILL NOT PUSH MUCH MORE TO THE WEST AND SOUTH AND WILL START TO DECAY BACK TO THE EAST THROUGH MID WEEK...WITH THE EXCEPTION OF WAVES GENERATED BY THE DEVELOPING TROPICAL STORM WITHIN A COUPLE OF HUNDRED MILES OF ITS CENTER. THE TROPICAL STORM WILL SHIFT N OF THE AREA BY EARLY THU...LEAVING LIGHT TO GENTLE BREEZES AND SEAS 4 TO 6 FT NE OF THE BAHAMAS INTO FRI. A COLD FRONT WILL MOVE INTO THE WATERS OFF NE FLORIDA FRI INTO SAT FOLLOWED BY MODERATE TO FRESH NORTHERLY FLOW AND SEAS TO 7 FT. SOME UNCERTAINTY PERSISTS IN MODEL OUTPUT ON THE INTENSITY AND SPEED OF MOVEMENT OF THE TROPICAL CYCLONE. THE OFFICIAL FORECAST IS A GENERAL BLEND OF GFS AND ECMWF GUIDANCE.

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.WARNINGS...ANY CHANGES IMPACTING COASTAL NWS OFFICES WILL BE COORDINATED THROUGH AWIPS 12 PLANET CHAT OR BY TELEPHONE:

.GULF OF MEXICO...

NONE.

.CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND 64W...

NONE.

.SW N ATLANTIC INCLUDING THE BAHAMAS...
.AMZ113...ATLANTIC FROM 27N TO 31N BETWEEN 70W AND 77W...
TROPICAL STORM WARNING TONIGHT INTO TUE NIGHT.
.AMZ115...ATLANTIC FROM 27N TO 31N BETWEEN 65W AND 70W...
TROPICAL STORM WARNING TONIGHT INTO TUE.

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*FOR DETAILED ZONE DESCRIPTIONS PLEASE VISIT:
[HTTP://WWW.NHC.NOAA.GOV/ABOUTTAFBPROD.SHTML#OWF](http://www.nhc.noaa.gov/abouttafbprod.shtml#owf)

NOTE: GRIDDED MARINE FORECASTS ARE AVAILABLE IN THE
NATIONAL DIGITAL FORECAST DATABASE (NDFD) AT:
[HTTP://WWW.NHC.NOAA.GOV/MARINE/GRIDS.PHP](http://www.nhc.noaa.gov/marine/grids.php)

FOR ADDITIONAL INFORMATION PLEASE VISIT:
[HTTP://WWW.HURRICANE WARNINGS.GOV/MARINE](http://www.hurricanewarnings.gov/marine)

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.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 281744
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 PM EDT MON SEP 28 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 1200 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1730 UTC.

...SPECIAL FEATURES...

TROPICAL DEPRESSION ELEVEN IS CENTERED NEAR 27.8N 69.6W AT 28/1500...MOVING WNW AT 4 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 1006 MB. MAXIMUM SUSTAINED WIND SPEED IS 30 KT WITH GUSTS TO 40 KT. SCATTERED MODERATE CONVECTION IS 20N-29N BETWEEN . PLEASE SEE THE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS ACROSS AFRICA INTO THE E TROPICAL ATLANTIC NEAR 11N15W TO 11N26W TO A 1012 MB SURFACE LOW CENTERED NEAR 11N38W. SCATTERED MODERATE CONVECTION IS FROM 08N-15N BETWEEN 20W-38W WHILE SCATTERED MODERATE TO STRONG CONVECTION PREVAILS E OF 19W.

...DISCUSSION...

GULF OF MEXICO...

AN UPPER-LEVEL LOW CENTERED ALONG THE COAST OF TEXAS NEAR 29N94W COVERING THE NW GULF MAINLY N OF 22N AND W OF 90W. AT THE SURFACE...A 1007 MB LOW IS CENTERED NEAR 28N94W EXTENDING A SURFACE TROUGH FROM 30N94W TO THE LOW CENTER TO 26N93W. SCATTERED MODERATE CONVECTION IS OBSERVED N OF THE LOW BETWEEN 91W-95W. A DIFFLUENT FLOW PREVAILS ACROSS THE EASTERN HALF OF THE BASIN SUPPORTING CLUSTERS OF MODERATE TO STRONG CONVECTION E OF 87W. ANOTHER 1007 MB LOW IS CENTERED ACROSS THE SE GULF NEAR

25N87W. A SURFACE TROUGH ACCOMPANIES THIS LOW EXTENDING FROM 26N86W TO 23N88W. SCATTEROMETER DATA DEPICTS GENTLE TO MODERATE FLOW ACROSS THE BASIN. EXPECT OVER THE NEXT 24 HOURS FOR THE SURFACE LOW ACROSS THE NW GULF TO DRIFT E ACROSS THE AREA WITH CONVECTION. THE SURFACE LOW CURRENTLY ACROSS THE SE GULF WILL MOVE NE WITH CONVECTION ALSO. ALTHOUGH UPPER-LEVEL WINDS ARE NOT FAVORABLE FOR TROPICAL DEVELOPMENT...THIS SYSTEM COULD PRODUCE LOCALLY HEAVY RAINFALL OVER PORTIONS OF THE NE GULF COAST... FLORIDA..AND THE SE CONUS DURING THE NEXT FEW DAYS.

CARIBBEAN SEA...

AN UPPER-LEVEL RIDGE COVERS THE W CARIBBEAN W OF 82W AND EXTENDS A RIDGE AXIS FROM THE GULF OF HONDURAS ACROSS W CUBA NEAR 22N84W INTO THE STRAITS OF FLORIDA AND THEN THE W ATLANTIC. WITH THIS...A DIFFLUENT FLOW PREVAILS ACROSS THE W CARIBBEAN SUPPORTING SCATTERED TO NUMEROUS SHOWERS AND THUNDERSTORMS AFFECTING THE W CARIBBEAN AND PORTIONS OF CUBA MAINLY W OF 83W. AN UPPER-LEVEL LOW IS CENTERED E OF THE LEEWARD ISLANDS. THIS LOW IS SUPPORTING ISOLATED CONVECTION ACROSS THE EASTERN CARIBBEAN AFFECTING THE LESSER ANTILLES AND PUERTO RICO...AS DEPICTED IN DOPPLER RADAR IMAGERY. SCATTEROMETER DATA DEPICTS GENTLE TO MODERATE TRADES ACROSS MOST OF THE CARIBBEAN...WITH MODERATE TO FRESH WINDS S OF 14N BETWEEN 70W-78W. OVER THE NEXT 24 HOURS...CONVECTION WILL CONTINUE ACROSS THE NW CARIBBEAN. FRESH TO STRONG TRADE WINDS WILL BE PULSING EACH NIGHT OFF COLOMBIA AND W VENEZUELA.

...HISPANIOLA...

CLOUDY SKIES PREVAIL ACROSS THE ISLAND AS T.D. ELEVEN CONTINUES N OF THE AREA. LIMITED MOISTURE COMBINED WITH DAYTIME HEATING COULD GENERATE AFTERNOON ISOLATED SHOWERS/THUNDERSTORMS ACROSS THE INLAND PORTIONS OF THE ISLAND AND POSSIBLY ALONG THE ATLANTIC TODAY AND OVER THE NEXT 24 HOURS.

ATLANTIC OCEAN...

THE UPPER-LEVEL RIDGE AXIS EXTENDS FROM THE NW CARIBBEAN ACROSS W CUBA AND THE STRAITS OF FLORIDA INTO THE W ATLANTIC COVERING THE AREA OF 67W. TROPICAL DEPRESSION ELEVEN IS JUST TO THE E OF THIS UPPER-LEVEL RIDGE. SEE THE SECTION ABOVE FOR MORE DETAILS. AN UPPER-LEVEL TROUGH PREVAILS OVER THE CENTRAL ATLANTIC N OF 27N BETWEEN 34W-60W SUPPORTING A FRONTAL SYSTEM ANALYZED AS A STATIONARY FRONT FROM 31N65W TO 27N47W AND AS A COLD FRONT FROM THAT POINT TO 31N32W. SCATTERED MODERATE CONVECTION IS OBSERVED

ALONG AND N OF THE FRONT BETWEEN 56W-67W AND BETWEEN 31W-48W. A 1012 MB LOW...REMNANTS OF IDA...IS NEAR 24N51W WITH SURFACE TROUGH EXTENDING FROM 26N50W TO 19N51W. ISOLATED MODERATE CONVECTION IS OBSERVED FROM 19N-25N BETWEEN 48W-52W. TO THE E...A SURFACE RIDGE PREVAILS ANCHORED BY A 1019 MB SURFACE HIGH CENTERED NEAR 30N27W. OVER THE NEXT 24 HOURS...TROPICAL DEPRESSION ELEVEN WILL STRENGTHEN TO A TROPICAL STORM BY TONIGHT AS IT MOVES NW. CONVECTION IS STILL EXPECTED ACROSS THE CENTRAL ATLANTIC WITH THE FRONTAL BOUNDARIES.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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ERA

WTNT21 KNHC 282043
TCMAT1

TROPICAL DEPRESSION ELEVEN FORECAST/ADVISORY NUMBER 4
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
2100 UTC MON SEP 28 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL DEPRESSION CENTER LOCATED NEAR 27.5N 70.2W AT 28/2100Z
POSITION ACCURATE WITHIN 20 NM

PRESENT MOVEMENT TOWARD THE WEST OR 270 DEGREES AT 5 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1003 MB
MAX SUSTAINED WINDS 30 KT WITH GUSTS TO 40 KT.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 27.5N 70.2W AT 28/2100Z
AT 28/1800Z CENTER WAS LOCATED NEAR 27.5N 70.0W

FORECAST VALID 29/0600Z 27.7N 71.0W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 29/1800Z 27.9N 72.0W
MAX WIND 35 KT...GUSTS 45 KT.
34 KT... 50NE 40SE 20SW 0NW.

FORECAST VALID 30/0600Z 28.3N 72.8W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 50NE 40SE 20SW 0NW.

FORECAST VALID 30/1800Z 28.6N 73.4W
MAX WIND 45 KT...GUSTS 55 KT.
34 KT... 70NE 70SE 50SW 40NW.

FORECAST VALID 01/1800Z 30.0N 74.0W
MAX WIND 45 KT...GUSTS 55 KT.
34 KT... 70NE 70SE 50SW 40NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 02/1800Z 33.0N 74.0W
MAX WIND 45 KT...GUSTS 55 KT.

OUTLOOK VALID 03/1800Z 38.5N 73.5W
MAX WIND 45 KT...GUSTS 55 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 27.5N 70.2W

NEXT ADVISORY AT 29/0300Z

\$\$
FORECASTER PASCH/HAYES

WTNT31 KNHC 282044
TCPAT1

BULLETIN

TROPICAL DEPRESSION ELEVEN ADVISORY NUMBER 4
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
500 PM EDT MON SEP 28 2015

...DEPRESSION SHOWING LITTLE CHANGE IN STRENGTH AT THIS TIME...

SUMMARY OF 500 PM EDT...2100 UTC...INFORMATION

LOCATION...27.5N 70.2W
ABOUT 465 MI...745 KM SW OF BERMUDA
MAXIMUM SUSTAINED WINDS...35 MPH...55 KM/H
PRESENT MOVEMENT...W OR 270 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...1003 MB...29.62 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 PM EDT (2100 UTC), the center of Tropical Depression Eleven was located near latitude 27.5 North, longitude 70.2 West. The depression is moving toward the west near 6 mph (9 km/h), and a turn toward the west-northwest is expected over the next day or two.

Reports from an Air Force reconnaissance aircraft indicate that the maximum sustained winds remain near 35 mph (55 km/h) with higher gusts. Little change in strength is expected overnight, but the depression could become a tropical storm on Tuesday.

The Air Force plane measured a minimum central pressure of 1003 mb (29.62 inches).

HAZARDS AFFECTING LAND

None

NEXT ADVISORY

Next complete advisory at 1100 PM EDT.

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Forecaster Pasch/Hayes

FKNT21 KNHC 282045
TCANT1

TROPICAL DEPRESSION ELEVEN ICAO ADVISORY NUMBER 4
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
2100 UTC MON SEP 28 2015

TC ADVISORY

DTG: 20150928/2100Z
TCAC: KNHC
TC: ELEVEN
NR: 004
PSN: N2730 W07012
MOV: W 05KT
C: 1003HPA
MAX WIND: 030KT
FCST PSN + 06 HR: 290300 N2738 W07044
FCST MAX WIND + 06 HR: 030KT
FCST PSN + 12 HR: 290900 N2745 W07115
FCST MAX WIND + 12 HR: 030KT
FCST PSN + 18 HR: 291500 N2751 W07145
FCST MAX WIND + 18 HR: 035KT
FCST PSN + 24 HR: 292100 N2800 W07212
FCST MAX WIND + 24 HR: 035KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150929/0300Z

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WTNT41 KNHC 282045
TCDAT1

TROPICAL DEPRESSION ELEVEN DISCUSSION NUMBER 4
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
500 PM EDT MON SEP 28 2015

The low-level center has become well exposed due to continued northwesterly shear of 20 kt or more, with the mid-level center displaced well to the southeast of the low-level center. Flight-level and SFMR-observed wind data from an Air Force reconnaissance aircraft showed that the maximum winds remain near 30 kt. This is also consistent with the latest Dvorak estimates from SAB and TAFB.

The center of the depression has been moving well to the left of the previous track, with the initial motion estimated to be 270/05 kt. In addition to the more westward initial motion, there have been significant changes in the model guidance, with the latest ECMWF forecast taking the cyclone much farther south and west than the GFS in 3-5 days. This appears to be the result of enhanced mid-level ridging to the north of the cyclone in the ECMWF at that time frame. This has necessitated a significant southwestward shift of the official forecast, although for continuity the new NHC track does not take the cyclone as far to the southwest as the ECMWF. Given the large spread now seen in the dynamical track guidance, confidence in the track forecast is rather low.

The strong shear over the system is likely to continue for at least the next 12-24 hours and given the large displacement between the low- and mid-level centers, no intensification is anticipated in the short term. The dynamical guidance indicates some relaxation of the shear in a day or two, so the official forecast shows the cyclone strengthening into a tropical storm later on Tuesday. This is close to the intensity model consensus through 48 hours, and a little below it thereafter. Given the large uncertainty in the track forecast, there is also uncertainty as to what kind of environment the cyclone will encounter during the forecast period, which also leads to low confidence in the official intensity forecast.

FORECAST POSITIONS AND MAX WINDS

INIT 28/2100Z 27.5N 70.2W 30 KT 35 MPH
12H 29/0600Z 27.7N 71.0W 30 KT 35 MPH

24H 29/1800Z 27.9N 72.0W 35 KT 40 MPH
36H 30/0600Z 28.3N 72.8W 40 KT 45 MPH
48H 30/1800Z 28.6N 73.4W 45 KT 50 MPH
72H 01/1800Z 30.0N 74.0W 45 KT 50 MPH
96H 02/1800Z 33.0N 74.0W 45 KT 50 MPH
120H 03/1800Z 38.5N 73.5W 45 KT 50 MPH

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Forecaster Pasch/Hayes

FZNT23 KNHC 282131
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
531 PM EDT MON SEP 28 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-290945-
BAHAMAS INCLUDING CAY SAL BANK-
531 PM EDT MON SEP 28 2015

.TONIGHT...NW TO N WINDS 5 TO 10 KT. SEAS 5 TO 7 FT ATLC
EXPOSURES...AND 2 FT OR LESS ELSEWHERE.
.TUE...NW WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT IN THE
AFTERNOON. SEAS 4 TO 6 FT ATLC EXPOSURES... AND 2 FT OR LESS
ELSEWHERE.
.TUE NIGHT...NW WINDS 10 TO 15 KT...DIMINISHING TO 5 TO 10 KT
LATE. SEAS 4 TO 6 FT ATLC EXPOSURES...AND 2 FT OR LESS
ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED...W TO NW WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT IN
THE AFTERNOON. SEAS 4 TO 6 FT ATLC EXPOSURES...AND 2 FT OR LESS
ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED NIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.THU...W TO NW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.THU NIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.FRI...W WINDS 10 TO 15 KT. SEAS 3 FT.
.FRI NIGHT...W WINDS 10 TO 15 KT. SEAS 3 FT.
.SAT...W WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.SAT NIGHT...W TO NW WINDS 10 TO 15 KT...BECOMING NW 5 TO 10 KT
LATE. SEAS 3 TO 4 FT IN THE EVENING...SUBSIDING TO
2 FT OR LESS.

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AMZ119-290945-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
531 PM EDT MON SEP 28 2015

.TONIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 5 TO 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.TUE...W WINDS 10 TO 15 KT. SEAS 6 TO 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.TUE NIGHT...SW TO W WINDS 10 TO 15 KT. SEAS 6 TO 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED...SW TO W WINDS 10 TO 15 KT. SEAS 6 TO 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED NIGHT...SW WINDS 10 TO 15 KT. SEAS 5 TO 6 FT.

.THU...SW WINDS 10 TO 15 KT. SEAS 5 TO 6 FT.

.THU NIGHT...SW WINDS 10 TO 15 KT...DIMINISHING TO 5 TO 10 KT LATE. SEAS 5 FT.

.FRI...SW WINDS 10 TO 15 KT. SEAS 4 TO 5 FT.

.FRI NIGHT...SW TO W WINDS 10 TO 15 KT. SEAS 4 TO 5 FT.

.SAT...W WINDS 10 TO 15 KT. SEAS 4 TO 5 FT.

.SAT NIGHT...W WINDS 10 TO 15 KT. SEAS 4 TO 5 FT.

FZNT02 KNHC 282216
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
2230 UTC MON SEP 28 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.

SYNOPSIS VALID 1800 UTC MON SEP 28.
24 HOUR FORECAST VALID 1800 UTC TUE SEP 29.
48 HOUR FORECAST VALID 1800 UTC WED SEP 30.

.WARNINGS.

...TROPICAL STORM WARNING...

.TROPICAL DEPRESSION ELEVEN NEAR 27.5N 70.2W 1003 MB AT 2100 UTC
SEP 28 MOVING W OR 270 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 30
KT GUSTS 40 KT. WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT.
SEAS TO 10 FT.

.24 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 27.9N 72.0W.
MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE
WINDS WITHIN 50 NM NE QUADRANT...40 NM SE QUADRANT...20 NM SW
QUADRANT...AND 0 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN
180 NM NE SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM
NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 10 FT.

.48 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 28.6N 73.4W.
MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT. TROPICAL STORM FORCE
WINDS WITHIN 70 NM E SEMICIRCLE...50 NM SW QUADRANT AND 40 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM N SEMICIRCLE WITH
SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE
WINDS 25 TO 33 KT. SEAS 8 TO 10 FT.

.72 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 30.0N 74.0W.
MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT. EXTENDED
OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 33.0N 74.0W.
MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT.

.120 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 38.5N 73.5W.
MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

...GALE WARNING...

.GULF OF MEXICO LOW PRES NEAR 26N86W 1007 MB. FROM 23N TO 26N
BETWEEN 84W AND 85.5W S WINDS 25 TO 35 KT. SEAS TO 10 FT.
ELSEWHERE FROM 22.5N TO 26.5N BETWEEN 83.5W AND 86W S TO SW
WINDS 20 TO 25 KT. SEAS TO 8 FT. SCATTERED TO LOCALLY NUMEROUS
STRONG TSTMS. N OF 29N BETWEEN 85W AND 87.5W E WINDS 20 TO 25
KT. SEAS TO 8 FT.

.12 HOUR FORECAST LOW PRES 28.5N85W 1007 MB. N OF 26N E OF 85W
SE TO S WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST LOW PRES ALONG COAST NEAR 30N85W 1008 MB.
WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.36 HOUR FORECAST LOW PRES WELL INLAND. WINDS 20 KT OR LESS.
SEAS LESS THAN 8 FT.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 29N35W TO 27N44W THEN STATIONARY TO 27N56W
TO 31N68W. N OF FRONT E OF 60W NE TO E WINDS 20 TO 30 KT. SEAS 8
TO 15 FT. N OF FRONT W OF 60W E TO SE WINDS 20 TO 30 KT. SEAS 9
TO 14 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.D. ELEVEN...N OF
LINE FROM 27N40W TO 23N53W TO 29N79W WINDS 20 KT OR LESS. SEAS 8
TO 9 FT IN NE SWELL.

.24 HOUR FORECAST STATIONARY FRONT FROM 28N35W TO 26.5N47W THEN
DISSIPATING FRONT TO 31N60W. N OF FRONT E OF 48W NE TO E WINDS
20 TO 25 KT. SEAS 9 TO 11 FT. N OF FRONT W OF 48W E TO SE WINDS
20 TO 25 KT. SEAS 10 TO 12 FT. N OF 25N BETWEEN 54W AND 60W SE
WINDS 20 TO 25 KT. SEAS 10 TO 11 FT. ELSEWHERE...EXCEPT AS NOTED
WITH T.D. ELEVEN...N OF LINE FROM 26N35W TO 23N42W TO 22N60W TO
31N78W...WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST FRONT TO BECOME DIFFUSE. DEVELOPING LOW PRES
NEAR 26.5N58W 1008 MB. N OF 27N BETWEEN 50W AND 63W E TO SE
WINDS 20 TO 30 KT. SEAS 9 TO 10 FT. ELSEWHERE N OF 24N E OF 65W
WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13N BETWEEN 69W AND 73W NE TO E WINDS 20 TO 25
KT. SEAS LESS THAN 8 FT.

.12 HOUR FORECAST S OF 13N BETWEEN 70W AND 76W E WINDS 20 TO 25
KT. SEAS TO 8 FT.

.24 HOUR FORECAST FROM 11N TO 13N BETWEEN 70W AND 73.5W NE TO E

WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.48 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 282217

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

2230 UTC MON SEP 28 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 1800 UTC SEP 28

24 HOUR FORECAST VALID 1800 UTC SEP 29

48 HOUR FORECAST VALID 1800 UTC SEP 30

.WARNINGS.

...STORM WARNING...

.LOW 61N57W 985 MB MOVING NE 15 KT. OVER FORECAST WATERS WITHIN 180 NM N...240 NM W AND SW AND 300 NM E QUADRANTS AND 120 NM E OF A WARM FRONT FROM 49N42W TO 58N47W WINDS 30 TO 40 KT. SEAS TO 13 FT. ELSEWHERE FROM 41N TO 64N BETWEEN 37W AND 65W WINDS 20 TO 30 KT. SEAS 8 TO 10 FT.

.06 HOUR FORECAST LOW 62N56W 982 MB. WITHIN 180 NM S...240 NM E AND 360 NM SE QUADRANTS AND WITHIN 120 NM E OF A WARM FRONT FROM 50N39W TO 57N41W WINDS 35 TO 50 KT. SEAS 10 TO 19 FT. ELSEWHERE FROM 58N TO 64N BETWEEN 45W AND 60W AND E OF A WARM FRONT FROM 45N40W TO 59N44W WINDS 25 TO 35 KT. SEAS 8 TO 11 FT.

.24 HOUR FORECAST LOW INLAND OVER GREENLAND 66N50W 999 MB. N OF 60N E OF 41W WINDS 20 TO 30 KT. SEAS TO 14 FT.

.36 HOUR FORECAST LOW DISSIPATED WITH CONDITIONS E OF AREA.

...GALE WARNING...

.OVER FORECAST WATERS FROM 31N TO 37N BETWEEN 46W AND 75W WINDS 25 TO 35 KT. SEAS TO 17 FT.

.24 HOUR FORECAST S OF A LINE FROM 34N35W TO 40N71W TO 37N76W WINDS 20 TO 30 KT. SEAS TO 14 FT.

.48 HOUR FORECAST WITHIN 840 NM W OF A LINE FROM 31N52W TO 44N68W WINDS 20 TO 30 KT. SEAS 8 TO 12 FT.

...GALE WARNING...

.48 HOUR FORECAST NEW LOW 60N69W 1003 MB. OVER FORECAST WATERS WITHIN 360 NM E OF A FRONT FROM 53N49W TO 61N36W WINDS 25 TO 35 KT. SEAS 8 TO 12 FT.

.SYNOPSIS AND FORECAST.

.48 HOUR FORECAST LOW E OF AREA 41N28W 1003 MB. OVER FORECAST WATERS FROM 37N TO 47N E OF 40W WINDS 20 TO 30 KT. SEAS TO 13 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS W OF A LINE FROM 49N50W TO 57N49W TO 59N53W.

.24 HOUR FORECAST DENSE FOG FROM 53N TO 57N E OF 40W AND W OF A LINE FROM 45N48W TO 56N52W.

.48 HOUR FORECAST DENSE FOG WITHIN 360 NM E OF A LINE FROM 46N51W TO 51N53W TO 62N38W AND FROM 41N TO 43N BETWEEN 67W AND 69W.

.HIGH 38N53W 1030 MB MOVING NW 05 KT.

.24 HOUR FORECAST HIGH 40N54W 1029 MB.

.48 HOUR FORECAST HIGH 43N53W 1027 MB.

.FORECASTER MUSER. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1800 UTC MON SEP 28.

24 HOUR FORECAST VALID 1800 UTC TUE SEP 29.

48 HOUR FORECAST VALID 1800 UTC WED SEP 30.

.WARNINGS.

...TROPICAL STORM WARNING...

.TROPICAL DEPRESSION ELEVEN NEAR 27.5N 70.2W 1003 MB AT 2100 UTC SEP 28 MOVING W OR 270 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 30 KT GUSTS 40 KT. WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 10 FT.

.24 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 27.9N 72.0W. MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE WINDS WITHIN 50 NM NE QUADRANT...40 NM SE QUADRANT...20 NM SW QUADRANT...AND 0 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 180 NM NE SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 10 FT.

.48 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 28.6N 73.4W. MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM E SEMICIRCLE...50 NM SW QUADRANT AND 40 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM N SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 8 TO 10 FT.

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MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM ELEVEN NEAR 33.0N 74.0W.

MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT.

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FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

...GALE WARNING...

.GULF OF MEXICO LOW PRES NEAR 26N86W 1007 MB. FROM 23N TO 26N BETWEEN 84W AND 85.5W S WINDS 25 TO 35 KT. SEAS TO 10 FT.

ELSEWHERE FROM 22.5N TO 26.5N BETWEEN 83.5W AND 86W S TO SW WINDS 20 TO 25 KT. SEAS TO 8 FT. SCATTERED TO LOCALLY NUMEROUS STRONG TSTMS. N OF 29N BETWEEN 85W AND 87.5W E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.12 HOUR FORECAST LOW PRES 28.5N85W 1007 MB. N OF 26N E OF 85W SE TO S WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST LOW PRES ALONG COAST NEAR 30N85W 1008 MB. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.36 HOUR FORECAST LOW PRES WELL INLAND. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 29N35W TO 27N44W THEN STATIONARY TO 27N56W TO 31N68W. N OF FRONT E OF 60W NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 15 FT. N OF FRONT W OF 60W E TO SE WINDS 20 TO 30 KT. SEAS 9 TO 14 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.D. ELEVEN...N OF LINE FROM 27N40W TO 23N53W TO 29N79W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.24 HOUR FORECAST STATIONARY FRONT FROM 28N35W TO 26.5N47W THEN DISSIPATING FRONT TO 31N60W. N OF FRONT E OF 48W NE TO E WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. N OF FRONT W OF 48W E TO SE WINDS 20 TO 25 KT. SEAS 10 TO 12 FT. N OF 25N BETWEEN 54W AND 60W SE WINDS 20 TO 25 KT. SEAS 10 TO 11 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.D. ELEVEN...N OF LINE FROM 26N35W TO 23N42W TO 22N60W TO 31N78W...WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST FRONT TO BECOME DIFFUSE. DEVELOPING LOW PRES NEAR 26.5N58W 1008 MB. N OF 27N BETWEEN 50W AND 63W E TO SE WINDS 20 TO 30 KT. SEAS 9 TO 10 FT. ELSEWHERE N OF 24N E OF 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13N BETWEEN 69W AND 73W NE TO E WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.12 HOUR FORECAST S OF 13N BETWEEN 70W AND 76W E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST FROM 11N TO 13N BETWEEN 70W AND 73.5W NE TO E WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.48 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 282349
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 PM EDT MON SEP 28 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 1800 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 2315 UTC.

...SPECIAL FEATURES...

TROPICAL DEPRESSION ELEVEN IS CENTERED NEAR 27.5N 70.2W AT 28/2100 UTC OR ABOUT 405 NM SW OF BERMUDA MOVING W AT 5 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 1003 MB. MAXIMUM SUSTAINED WIND SPEED IS 30 KT WITH GUSTS TO 40 KT. SCATTERED MODERATE CONVECTION IS FROM 22N-27N BETWEEN 66W-71W. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

STRONG SOUTHERLY INFLOW INTO CONVECTIVE UPDRAFTS ASSOCIATED WITH A 1007 MB LOW CENTERED NEAR 26N86W IS GENERATING A SWATH OF NEAR GALE TO GALE FORCE WINDS ACROSS THE SE GULF OF MEXICO. AS DEPICTED ON AN EARLIER ASCAT PASS AROUND 28/1548 UTC...THE CORE OF THE STRONG WIND FIELD WAS NOTED IN THE VICINITY OF 25N85W AND HAS GENERALLY COINCIDED WITH STRONG MIDDLE TO UPPER LEVEL DIFFLUENCE AND PERSISTENT CONVECTION THROUGH THE EVENING HOURS. CURRENTLY ACTIVE CONVECTION...NUMEROUS SHOWERS AND SCATTERED TSTMS...ARE OCCURRING ACROSS THE EASTERN GULF FROM THE FLORIDA STRAITS TO THE TAMPA BAY REGION.

...TROPICAL WAVES...

TROPICAL WAVE EXTENDS FROM 12N19W TO 16N18W MOVING W AT 5 KT. THE WAVE COINCIDES WITH SUBTLE AND LOW-AMPLITUDE 700 MB TROUGHING ALOFT BETWEEN 15W-21W AS WELL AS A LOW TO MID-LEVEL MONSOONAL GYRE FOCUSED ON A 1008 MB LOW CENTERED AT THE SOUTHERN EXTENT OF THE WAVE AXIS ALONG THE MONSOON TROUGH NEAR 12N19W. WIDELY SCATTERED MODERATE CONVECTION IS FROM 11N-15N BETWEEN 15W-21W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE AFRICAN COAST NEAR 14N17W TO 10N23W TO 12N32W TO 09N42W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N42W TO 06N56W. ISOLATED MODERATE CONVECTION IS FROM 07N-13W BETWEEN 21W-38W.

...DISCUSSION...

GULF OF MEXICO...

SOUTHWESTERLY FLOW ALOFT IS NOTED OVER MUCH OF THE GULF THIS EVENING BETWEEN A RELATIVELY BROAD MIDDLE TO UPPER LEVEL LOW CENTERED OVER COASTAL TEXAS NEAR 29N95W AND AN UPPER LEVEL RIDGE ANCHORED OVER THE SW NORTH ATLANTIC WATERS NEAR 26N79W. THE UPPER LEVEL LOW SUPPORTS A 1007 MB LOW CENTERED NEAR 28N94W WITH A ISOLATED SHOWERS AND TSTMS OCCURRING WITHIN THE NORTHERN QUADRANT OF THE LOW AND ACROSS INLAND PORTIONS OF SE TEXAS. FARTHER EAST...WITHIN THE AREA OF MAXIMUM MIDDLE TO UPPER LEVEL DIFFLUENCE NUMEROUS SHOWERS AND SCATTERED TSTMS ARE OCCURRING MOSTLY EAST OF A SURFACE TROUGH ANALYZED FROM 29N87W INTO A 1007 MB LOW CENTERED NEAR 26N86W TO 23N87W. THE STRONGEST CONVECTION PERSISTS ACROSS THE SE GULF AND A SMALLER AREA IN THE VICINITY OF THE FLORIDA PANHANDLE. THE UPPER LEVEL LOW AND ASSOCIATED NEARLY COLLOCATED SURFACE LOW IS EXPECTED TO BE SLOW TO MOVE THE NEXT FEW DAYS WHILE THE EASTERN GULF LOW ACCELERATES NORTHWARD TO THE FLORIDA BIG BEND REGION WITHIN THE NEXT 24 TO 36 HOURS. ASIDE FROM POTENTIAL TROPICAL CYCLONE DEVELOPMENT...THE MAIN IMPACT WILL CONTINUE TO BE CONVECTIVE PRECIPITATION...HEAVY AT TIMES...AND POTENTIAL FLOODING ACROSS FLORIDA.

CARIBBEAN SEA...

NORTH-NORTHEASTERLY FLOW PREVAILS OVER MUCH OF THE WESTERN CARIBBEAN W OF 75W THAT IS PROVIDING OVERALL STABLE CONDITIONS AND FAIR WEATHER THIS EVENING. HOWEVER...ONE EXCEPTION LIES ACROSS THE NW CARIBBEAN WHERE MIDDLE TO UPPER LEVEL DIFFLUENCE IS MAXIMIZED AND LOW-LEVEL MOISTURE CONVERGENCE AND INSTABILITY IS PRODUCING ISOLATED SHOWERS AND TSTMS W OF 83W...INCLUDING PORTIONS OF WESTERN CUBA AND CENTRAL AMERICA. FARTHER EAST... MOSTLY CLEAR SKIES PREVAIL WITH THE EXCEPTION OF A FEW ISOLATED SHOWERS AND TSTMS ACROSS HISPANIOLA AND THE ADJACENT COASTAL WATERS. WATER VAPOR IMAGERY INDICATES RELATIVELY STRONG DRY AIR ALOFT IN ASSOCIATION WITH A BROAD AND ELONGATED UPPER LEVEL LOW CENTERED NEAR 16N63W. OTHERWISE...MAINLY FRESH TO OCCASIONAL STRONG TRADES PERSIST WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

CURRENTLY LINGERING LATE AFTERNOON AND EARLY EVENING ISOLATED SHOWERS CONTINUE TO GRADUALLY DIMINISH WITH MOSTLY FAIR SKIES EXPECTED FOR THE OVERNIGHT HOURS INTO EARLY MONDAY. NORTHEASTERLY FLOW ALOFT PREVAILS OVER THE ISLAND.

ATLANTIC OCEAN...

ASIDE FROM TROPICAL DEPRESSION ELEVEN...THE REMAINDER OF THE SW NORTH ATLANTIC IS UNDER THE INFLUENCE OF MOSTLY NORTH-NORTHEASTERLY FLOW ALOFT ON THE EASTERN PERIPHERY OF AN UPPER LEVEL RIDGE ANCHORED OVER THE OFFSHORE WATERS OF THE FLORIDA PENINSULA NEAR 27N79W. OUTSIDE OF THE INFLUENCE OF THE TROPICAL DEPRESSION... MOSTLY FAIR SKIES ARE NOTED WITH ONLY A FEW ISOLATED SHOWERS AND TSTMS INITIATING OFF THE FLORIDA COAST N OF 26N W OF 79W. FARTHER EAST...AN COLD FRONT ENTERS THE NORTH-CENTRAL DISCUSSION WATERS NEAR 32N31W AND EXTENDS SW TO 28N42W BECOMING STATIONARY WESTWARD TO 27N58W THEN W-NW TO BEYOND 32N69W. ISOLATED SHOWERS AND TSTMS ARE OCCURRING WITHIN 150 NM EITHER SIDE OF BOUNDARY. ANOTHER IMPACT ASSOCIATED WITH THE FRONT IS AN INCREASED PRESSURE GRADIENT AND RESULTING STRONG WINDS NORTH OF THE FRONT AS DEPICTED BY EARLIER MORNING ASCAT PASSES. WINDS RANGE FROM 25 TO 30 KT. TO THE SOUTH OF THE FRONT ACROSS THE CENTRAL ATLANTIC... THE REMNANT LOW OF IDA IS CENTERED NEAR 23N52W AND CONTINUES TO GENERATE SCATTERED SHOWERS AND ISOLATED TSTMS FROM 20N-25N BETWEEN 49W-54W.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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HUFFMAN

WTNT31 KNHC 290236
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 5
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM EDT MON SEP 28 2015

...DEPRESSION STRENGTHENS TO TROPICAL STORM JOAQUIN...
...THE TENTH NAMED STORM OF THE SEASON...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

LOCATION...26.7N 70.4W
ABOUT 400 MI...645 KM NE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...40 MPH...65 KM/H
PRESENT MOVEMENT...SW OR 230 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...1002 MB...29.59 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Tropical Storm Joaquin was located near latitude 26.7 North, longitude 70.4 West. Joaquin is moving toward the southwest near 5 mph (7 km/h). A slow westward motion is expected during the next couple of days.

Maximum sustained have increased to near 40 mph (65 km/h) with higher gusts. Slow strengthening is forecast during the next 48 hours.

Tropical-storm-force winds extend southeastward up to 105 miles (165 km) from the center.

The estimated minimum central pressure is 1002 mb (29.59 inches).

HAZARDS AFFECTING LAND

None.

NEXT ADVISORY

Next complete advisory at 500 AM EDT.

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Forecaster Cangialosi

WTNT21 KNHC 290236
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 5
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC TUE SEP 29 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL STORM CENTER LOCATED NEAR 26.7N 70.4W AT 29/0300Z
POSITION ACCURATE WITHIN 25 NM

PRESENT MOVEMENT TOWARD THE SOUTHWEST OR 230 DEGREES AT 4 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1002 MB
MAX SUSTAINED WINDS 35 KT WITH GUSTS TO 45 KT.
34 KT..... 0NE 90SE 0SW 0NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 26.7N 70.4W AT 29/0300Z
AT 29/0000Z CENTER WAS LOCATED NEAR 26.8N 70.2W

FORECAST VALID 29/1200Z 26.9N 71.0W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 50NE 70SE 40SW 50NW.

FORECAST VALID 30/0000Z 27.1N 72.0W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 60NE 60SE 40SW 50NW.

FORECAST VALID 30/1200Z 27.2N 72.8W
MAX WIND 45 KT...GUSTS 55 KT.
34 KT... 70NE 60SE 50SW 70NW.

FORECAST VALID 01/0000Z 27.4N 73.4W
MAX WIND 50 KT...GUSTS 60 KT.
50 KT... 40NE 0SE 0SW 0NW.
34 KT... 80NE 70SE 60SW 70NW.

FORECAST VALID 02/0000Z 28.6N 74.0W
MAX WIND 55 KT...GUSTS 65 KT.
50 KT... 40NE 40SE 0SW 0NW.
34 KT... 90NE 80SE 70SW 70NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 03/0000Z 32.4N 74.0W
MAX WIND 55 KT...GUSTS 65 KT.

OUTLOOK VALID 04/0000Z 38.0N 74.0W
MAX WIND 55 KT...GUSTS 65 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 26.7N 70.4W

NEXT ADVISORY AT 29/0900Z

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FORECASTER CANGIALOSI

FKNT21 KNHC 290237
TCANT1

TROPICAL STORM JOAQUIN ICAO ADVISORY NUMBER 5
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC TUE SEP 29 2015

TC ADVISORY

DTG: 20150929/0300Z
TCAC: KNHC
TC: JOAQUIN
NR: 005
PSN: N2642 W07024
MOV: SW 04KT
C: 1002HPA
MAX WIND: 035KT
FCST PSN + 06 HR: 290900 N2650 W07048
FCST MAX WIND + 06 HR: 040KT
FCST PSN + 12 HR: 291500 N2657 W07115
FCST MAX WIND + 12 HR: 040KT
FCST PSN + 18 HR: 292100 N2703 W07145
FCST MAX WIND + 18 HR: 040KT
FCST PSN + 24 HR: 300300 N2707 W07212
FCST MAX WIND + 24 HR: 040KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150929/0900Z

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WTNT41 KNHC 290237
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 5
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM EDT MON SEP 28 2015

Satellite images indicate that the shower and thunderstorm activity associated with the depression has increased and become better organized during the past several hours. In addition, the low-level center now appears to have moved closer to the convection than it was earlier. The latest Dvorak classifications from TAFB and SAB were 2.5/35 kt, and the initial intensity is set at that value, making the cyclone Tropical Storm Joaquin. This intensity analysis also agrees with the reconnaissance aircraft data from earlier today that showed winds just under tropical-storm force.

The center of Joaquin has been moving southwestward during the last several hours, but it is expected to begin moving slowly westward overnight. This westward track is forecast to continue for a couple of days while a mid-level ridge remains to the north of the storm. After that time, a trough is anticipated to amplify over the eastern United States, which should cause Joaquin to turn northward and accelerate. There is considerable spread in the models, mainly due to the timing of when and how fast the storm makes the northward turn, due to differences in the evolution of the trough. In general, the guidance envelope has shifted southward for the first couple of days and then westward after that time. The official track forecast has been adjusted accordingly, but additional southward and westward adjustment may be needed in subsequent advisories.

Northwesterly shear of about 20 kt is currently affecting Joaquin, causing most of the thunderstorm activity to be located to the southeast of the center. The shear is expected to lessen some during the next couple of days, which in combination with warm water and high relative humidity values should allow Joaquin to strengthen. The official intensity forecast is raised from the previous one, but is lower than the intensity model consensus at days 3-5.

FORECAST POSITIONS AND MAX WINDS

INIT 29/0300Z 26.7N 70.4W 35 KT 40 MPH
12H 29/1200Z 26.9N 71.0W 40 KT 45 MPH
24H 30/0000Z 27.1N 72.0W 40 KT 45 MPH

36H 30/1200Z 27.2N 72.8W 45 KT 50 MPH
48H 01/0000Z 27.4N 73.4W 50 KT 60 MPH
72H 02/0000Z 28.6N 74.0W 55 KT 65 MPH
96H 03/0000Z 32.4N 74.0W 55 KT 65 MPH
120H 04/0000Z 38.0N 74.0W 55 KT 65 MPH

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Forecaster Cangialosi

FZNT02 KNHC 290311
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
0430 UTC TUE SEP 29 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0000 UTC TUE SEP 29.
24 HOUR FORECAST VALID 0000 UTC WED SEP 30.
48 HOUR FORECAST VALID 0000 UTC THU OCT 01.

.WARNINGS.

...ATLANTIC TROPICAL STORM WARNING...

.TROPICAL STORM JOAQUIN NEAR 26.7N 70.4W 1002 MB AT 0300 UTC SEP 29 MOVING SW OR 230 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE WINDS WITHIN 0 NM OF CENTER EXCEPT 90 NM SE QUADRANT. SEAS 8 TO 11 FT WITHIN 90 NM NE SEMICIRCLE. ELSEWHERE WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 27.1N 72.0W. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM E SEMICIRCLE...40 NM SW QUADRANT AND 50 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 180 NM NE SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 10 FT.

.48 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 27.4N 73.4W. MAXIMUM SUSTAINED WINDS 50 KT GUSTS 60 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM NW AND SE QUADRANTS...80 NM NE QUADRANT AND 60 NM SW QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM N SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 8 TO 10 FT.

.72 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 28.6N 74.0W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. EXTENDED

OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 32.4N 74.0W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 38.0N 74.0W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

...GULF OF MEXICO GALE WARNING...

.LOW PRES NEAR 26.5N85.5W 1006 MB. FROM 25N TO 28N BETWEEN 83W
AND 84.5W S WINDS 25 TO 35 KT. SEAS TO 9 FT. ELSEWHERE FROM 24N
TO 29N BETWEEN 83W AND 85.5W S TO SW WINDS 20 TO 25 KT. SEAS TO
8 FT. SCATTERED TO LOCALLY NUMEROUS STRONG TSTMS FROM 23N TO 28N
BETWEEN 81.5W AND 85W.

.06 HOUR FORECAST LOW PRES 28N85W 1007 MB. N OF 26N E OF 85W SE
TO S WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST LOW PRES WELL INLAND. WINDS 20 KT OR LESS.
SEAS LESS THAN 8 FT.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 28N35W TO 26.5N41W THEN STATIONARY TO
27N56W TO 31N68W. N OF FRONT E OF 58W NE TO E WINDS 20 TO 30 KT.
SEAS 8 TO 15 FT. N OF FRONT W OF 58W E TO SE WINDS 20 TO 30 KT.
SEAS 9 TO 14 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.S.
JOAQUIN...N OF LINE FROM 26.5N40W TO 23N53W TO 26N73W TO 29N79W
WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.24 HOUR FORECAST STATIONARY FRONT FROM 27.5N35W TO 24N43W THEN
DISSIPATING FRONT TO 27N61W. N OF FRONT E OF 54W NE TO E WINDS
20 TO 25 KT. SEAS 8 TO 11 FT. N OF FRONT W OF 54W E TO SE WINDS
20 TO 25 KT. SEAS 9 TO 12 FT. S OF FRONT TO 25N BETWEEN 54W AND
61W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE...
EXCEPT AS NOTED WITH T.S. JOAQUIN...N OF LINE FROM 25N35W TO
23N40W TO 22N60W TO 26N75W TO 31N78W...WINDS 20 KT OR LESS. SEAS
8 TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST FRONT TO BECOME DIFFUSE. BROAD LOW PRES NEAR
26.5N57W 1008 MB. N OF 27N BETWEEN 50W AND 64W E TO SE WINDS 20
TO 30 KT. SEAS 8 TO 12 FT. ELSEWHERE N OF 25N E OF 68W WINDS 20
KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13.5N BETWEEN 70W AND 74W NE TO E WINDS 20 TO 25
KT. SEAS LESS THAN 8 FT.

.06 HOUR FORECAST S OF 13N BETWEEN 70W AND 75W NE TO E WINDS 20
TO 25 KT. SEAS TO 8 FT.

.18 HOUR FORECAST FROM 11N TO 13N BETWEEN 70W AND 73.5W NE TO E
WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST LITTLE CHANGE.

.48 HOUR FORECAST LITTLE CHANGE.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

FZNT23 KNHC 290317
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1117 PM EDT MON SEP 28 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-291530-
BAHAMAS INCLUDING CAY SAL BANK-
1117 PM EDT MON SEP 28 2015

.OVERNIGHT...NW TO N WINDS 10 TO 15 KT. SEAS 6 FT ATLC
EXPOSURES...AND 3 FT ELSEWHERE.
.TUE...NW WINDS 10 TO 15 KT. SEAS 6 FT ATLC EXPOSURES...AND 3 FT
ELSEWHERE.
.TUE NIGHT...NW WINDS 10 TO 15 KT. SEAS 7 FT ATLC EXPOSURES...
AND 3 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED...W TO NW WINDS 10 TO 15 KT. SEAS 6 FT ATLC EXPOSURES...AND
3 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED NIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 5 TO 6 FT ATLC
EXPOSURES...AND 3 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED
TSTMS.
.THU...W TO NW WINDS 10 TO 15 KT. SEAS 5 FT.
.THU NIGHT...W TO NW WINDS 10 TO 15 KT. ATLC EXPOSURES...SEAS
5 FT. ELSEWHERE...SEAS 3 FT IN THE EVENING...SUBSIDING TO 2 FT
OR LESS.
.FRI...W WINDS 10 TO 15 KT. SEAS 4 FT.
.FRI NIGHT...SW TO W WINDS 10 TO 15 KT. SEAS 4 FT.
.SAT...W WINDS 10 TO 15 KT. SEAS 4 FT.

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AMZ119-291530-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1117 PM EDT MON SEP 28 2015

...TROPICAL STORM WARNING...

.OVERNIGHT...TROPICAL STORM CONDITIONS POSSIBLE. N OF 25N... NW WINDS 15 TO 20 KT...INCREASING TO 30 TO 35 KT LATE.
ELSEWHERE...W WINDS 10 TO 15 KT. SEAS 7 FT. SCATTERED TSTMS.
.TUE...TROPICAL STORM CONDITIONS EXPECTED. W TO NW WINDS 35 TO 40 KT N OF 25N...AND SW TO W 10 TO 15 KT ELSEWHERE. SEAS 7 FT.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.TUE NIGHT...TROPICAL STORM CONDITIONS EXPECTED. W WINDS 35 TO 40 KT N OF 25N...AND SW TO W 10 TO 15 KT ELSEWHERE. SEAS 7 FT.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED...TROPICAL STORM CONDITIONS POSSIBLE. SW TO W WINDS 35 TO 45 KT N OF 25N...AND SW TO W 10 TO 15 KT ELSEWHERE. SEAS 7 FT.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. N OF 25N...SW TO W WINDS 40 TO 45 KT...BECOMING SW 30 TO 35 KT LATE.
ELSEWHERE...SW WINDS 10 TO 15 KT. SEAS 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
.THU...N OF 25N...SW WINDS 25 TO 30 KT...DIMINISHING TO 15 TO 20 KT IN THE AFTERNOON. ELSEWHERE...SW WINDS 10 TO 15 KT. SEAS 6 FT.
.THU NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. SW WINDS 10 TO 15 KT. SEAS 6 FT.
.FRI...SW WINDS 10 TO 15 KT. SEAS 5 FT.
.FRI NIGHT...SW TO W WINDS 15 TO 20 KT. SEAS 5 FT.
.SAT...SW TO W WINDS 15 TO 20 KT. SEAS 5 FT.

FZNT01 KWBC 290348

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

0430 UTC TUE SEP 29 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0000 UTC SEP 29

24 HOUR FORECAST VALID 0000 UTC SEP 30

48 HOUR FORECAST VALID 0000 UTC OCT 01

.WARNINGS.

...STORM WARNING...

.LOW 61N54W 984 MB MOVING NE 15 KT. FRONT EXTENDS FROM CENTER TO 59N48W TO 58N46W. WITHIN 120 NM E AND NE OF FRONT N OF 50N WINDS 35 TO 50 KT. SEAS 14 TO 20 FT. ELSEWHERE WITHIN 120 NM NE SEMICIRCLE...AND WITHIN 120 NM NE AND E OF FRONT...ALSO FROM 59N TO 61N BETWEEN 52W AND 61W WINDS 25 TO 40 KT. SEAS 9 TO 15 FT. ALSO FROM 58N TO 64N BETWEEN 50W AND 60W WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW INLAND OVER GREENLAND.

...GALE WARNING...

.FROM 51N TO 57N BETWEEN 37W AND 41W WINDS 25 TO 35 KT. SEAS 9 TO 13 FT. ELSEWHERE FROM 49N TO 58N E OF 43W WINDS 20 TO 30 KT. SEAS TO 11 FT. FROM 43N TO 53N BETWEEN 48W AND 64W WINDS TO 25 KT. SEAS TO 10 FT.

.24 HOUR FORECAST FROM 61N TO 66N E OF 37W WINDS 20 TO 30 KT. SEAS TO 12 FT.

...GALE WARNING...

.WITHIN 180 NM N AND E OF A LINE FROM 32N70W TO 31N65W WINDS 25 TO 35 KT. SEAS 10 TO 15 FT. ELSEWHERE WITHIN 360 NM NE AND E OF A LINE FROM 34N74W TO 31N70W...ALSO S OF A LINE FROM 36N66W TO 31N50W WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST WITHIN 360 NM NE AND E OF A LINE FROM 35N72W TO 31N64W...ALSO S OF A LINE FROM 38N64W TO 33N49W WINDS TO 25 KT. SEAS TO 11 FT.

.48 HOUR FORECAST WITHIN 360 NM E AND NE OF A LINE FROM 44N67W TO 37N69W TO 31N64W...AND W OF A LINE FROM 42N70W TO 44N67W WINDS 20 TO 30 KT. SEAS TO 11 FT.

...GALE WARNING...

.24 HOUR FORECAST FROM 46N TO 51N W OF 57W WINDS 20 TO 30 KT. SEAS TO 8 FT.

.48 HOUR FORECAST E OF A LINE FROM 61N35W TO 58N37W TO 56N37W WINDS 25 TO 35 KT. SEAS 9 TO 13 FT. ELSEWHERE BETWEEN 120 NM AND 360 NM S QUADRANT...AND E OF A LINE FROM 651N35W TO 55N41W WINDS 20 TO 30 KT. SEAS TO 12 FT.

.SYNOPSIS AND FORECAST.

.48 HOUR FORECAST LOW E OF AREA 39N30W 1000 MB. OVER FORECAST WATERS FROM 37N TO 45N E OF 38W WINDS 20 TO 30 KT. SEAS TO 13 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS WITHIN 180 NM NE OF A LINE FROM 52N55W TO 48N51W.

.24 HOUR FORECAST DENSE FOG FROM 45N TO 56N BETWEEN 48W AND 53W...ALSO FROM 52N TO 57N E OF 40W.

.48 HOUR FORECAST DENSE FOG WITHIN AN AREA BOUNDED BY 60N35W TO 50N52W TO 45N49W TO 57N35W TO 60N35W.

.HIGH 37N49W 1031 MB MOVING NW 10 KT.

.24 HOUR FORECAST HIGH 39N53W 1029 MB.

.48 HOUR FORECAST HIGH 44N51W 1028 MB.

.FORECASTER SHAW. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0000 UTC TUE SEP 29.

24 HOUR FORECAST VALID 0000 UTC WED SEP 30.

48 HOUR FORECAST VALID 0000 UTC THU OCT 01.

.WARNINGS.

...ATLANTIC TROPICAL STORM WARNING...

.TROPICAL STORM JOAQUIN NEAR 26.7N 70.4W 1002 MB AT 0300 UTC SEP 29 MOVING SW OR 230 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE WINDS WITHIN 0 NM OF CENTER EXCEPT 90 NM SE QUADRANT. SEAS 8 TO 11 FT WITHIN 90 NM NE SEMICIRCLE. ELSEWHERE WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 27.1N 72.0W. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM E SEMICIRCLE...40 NM SW QUADRANT AND 50 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 180 NM NE SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 10 FT.

.48 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 27.4N 73.4W. MAXIMUM SUSTAINED WINDS 50 KT GUSTS 60 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM NW AND SE QUADRANTS...80 NM NE QUADRANT AND 60 NM SW QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM N SEMICIRCLE WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 8 TO 10 FT.

.72 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 28.6N 74.0W.

MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. EXTENDED

OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 32.4N 74.0W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 38.0N 74.0W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

...GULF OF MEXICO GALE WARNING...

.LOW PRES NEAR 26.5N85.5W 1006 MB. FROM 25N TO 28N BETWEEN 83W
AND 84.5W S WINDS 25 TO 35 KT. SEAS TO 9 FT. ELSEWHERE FROM 24N
TO 29N BETWEEN 83W AND 85.5W S TO SW WINDS 20 TO 25 KT. SEAS TO
8 FT. SCATTERED TO LOCALLY NUMEROUS STRONG TSTMS FROM 23N TO 28N
BETWEEN 81.5W AND 85W.

.06 HOUR FORECAST LOW PRES 28N85W 1007 MB. N OF 26N E OF 85W SE
TO S WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST LOW PRES WELL INLAND. WINDS 20 KT OR LESS.
SEAS LESS THAN 8 FT.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 28N35W TO 26.5N41W THEN STATIONARY TO
27N56W TO 31N68W. N OF FRONT E OF 58W NE TO E WINDS 20 TO 30 KT.
SEAS 8 TO 15 FT. N OF FRONT W OF 58W E TO SE WINDS 20 TO 30 KT.
SEAS 9 TO 14 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.S.

JOAQUIN...N OF LINE FROM 26.5N40W TO 23N53W TO 26N73W TO 29N79W
WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.24 HOUR FORECAST STATIONARY FRONT FROM 27.5N35W TO 24N43W THEN
DISSIPATING FRONT TO 27N61W. N OF FRONT E OF 54W NE TO E WINDS
20 TO 25 KT. SEAS 8 TO 11 FT. N OF FRONT W OF 54W E TO SE WINDS
20 TO 25 KT. SEAS 9 TO 12 FT. S OF FRONT TO 25N BETWEEN 54W AND
61W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE...

EXCEPT AS NOTED WITH T.S. JOAQUIN...N OF LINE FROM 25N35W TO
23N40W TO 22N60W TO 26N75W TO 31N78W...WINDS 20 KT OR LESS. SEAS
8 TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST FRONT TO BECOME DIFFUSE. BROAD LOW PRES NEAR
26.5N57W 1008 MB. N OF 27N BETWEEN 50W AND 64W E TO SE WINDS 20
TO 30 KT. SEAS 8 TO 12 FT. ELSEWHERE N OF 25N E OF 68W WINDS 20
KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13.5N BETWEEN 70W AND 74W NE TO E WINDS 20 TO 25
KT. SEAS LESS THAN 8 FT.

.06 HOUR FORECAST S OF 13N BETWEEN 70W AND 75W NE TO E WINDS 20
TO 25 KT. SEAS TO 8 FT.

.18 HOUR FORECAST FROM 11N TO 13N BETWEEN 70W AND 73.5W NE TO E
WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST LITTLE CHANGE.

.48 HOUR FORECAST LITTLE CHANGE.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 290602
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 AM EDT TUE SEP 29 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0000 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 0545 UTC.

...SPECIAL FEATURES...

TROPICAL DEPRESSION ELEVEN INTENSIFIED INTO TROPICAL STORM JOAQUIN. AT 0300 UTC ITS CENTER IS LOCATED NEAR 26.7N 70.4W OR ABOUT 348 NM NE OF THE CENTRAL BAHAMAS. THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 1002 MB. MAXIMUM SUSTAINED WIND SPEED IS 35 KT WITH GUSTS TO 45 KT. NUMEROUS MODERATE/ISOLATED STRONG CONVECTION IS FROM 22N-26N BETWEEN 68W-71W...SCATTERED MODERATE CONVECTION AND ISOLATED TSTMS ARE FROM 20N-27N BETWEEN 66W-73W. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

SOUTHERLY INFLOW ASSOCIATED WITH A 1009 MB LOW CENTERED NEAR 26N83W IS GENERATING A SWATH OF NEAR GALE TO GALE FORCE WINDS ACROSS THE E-SE GULF OF MEXICO. THE STRONG WIND FIELD GENERALLY COINCIDES WITH A REGION OF DIFFLUENCE ALOFT AND SCATTERED MODERATE CONVECTION E OF 85W. GALE FORCE WINDS AND ASSOCIATED SEAS WILL DIMINISH BY 0600 UTC TODAY.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC E OF THE CAPE VERDE ISLANDS WITH TILTED AXIS EXTENDING FROM 16N17W SW TO A 1010 MB LOW EMBEDDED IN THE MONSOON TROUGH NEAR 10N21W. SSMI TOTAL PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED MAINLY IN A MODERATE MOIST ENVIRONMENT THAT ALONG WITH MIDDLE LEVEL DIFFLUENCE AHEAD OF THE SURFACE LOW SUPPORT SCATTERED TO ISOLATED MODERATE CONVECTION AND TSTMS FROM 13N TO 16N BETWEEN

17W AND 22W AND FROM 07N TO 12N BETWEEN 22W AND 26W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE AFRICAN COAST NEAR 12N16W TO A 1010 MB LOW NEAR 10N21W TO 11N30W TO 09N41W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N41W TO 05N53W. ASIDE FROM THE CONVECTION ASSOCIATED WITH THE TROPICAL WAVE...SCATTERED MODERATE CONVECTION IS FROM 05N-11W BETWEEN 28W-42W.

...DISCUSSION...

GULF OF MEXICO...

SURFACE LOW PRESSURE CONTINUES TO DOMINATE ACROSS THE GULF...EXCEPT FOR THE W-SW BASIN WHERE A WEAK HIGH PRESSURE CENTER IS ANALYZED. ALOFT...A MIDDLE TO UPPER LEVEL LOW AND ASSOCIATED TROUGH EXTEND FROM ARKANSAS SW TO CENTRAL MEXICO AND INFLUENCE A 1007 MB LOW PRESSURE CENTER LOCATED IN THE NW GULF NEAR 28N94W. WITH NO SUPPORT ALOFT...A FORMER STATIONARY FRONT STARTS TO DISSIPATE ALONG NORTHERN FLORIDA SW TO A 1007 MB LOW OVER THE NE BASIN NEAR 29N86W. SOUTHEAST OF THIS LOW CENTER...A 1009 MB LOW CENTER AND ASSOCIATED TROUGH SUPPORT NEAR GALE TO GALE FORCE WINDS. SEE THE SPECIAL FEATURES SECTION FOR DETAILS. ASIDE THE CONVECTION OVER THE E GULF DISCUSSED IN THE SPECIAL FEATURES...MOISTURE INFLOW FROM THE EPAC ASSOCIATED WITH TROPICAL STORM MARTY ENHANCES SCATTERED TO ISOLATED SHOWERS OVER THE SW BASIN. EXCEPT FOR THE E GULF E OF 85W...WINDS ARE 15 KT OR LESS AND VARIABLE. THE UPPER LEVEL LOW AND ASSOCIATED NEARLY COLLOCATED SURFACE LOW IS EXPECTED TO BE SLOW TO MOVE THE NEXT FEW DAYS WHILE THE EASTERN GULF LOW ACCELERATES NORTHWARD TO THE FLORIDA BIG BEND REGION WITHIN THE NEXT 24 HOURS. ASIDE FROM POTENTIAL TROPICAL CYCLONE DEVELOPMENT...THE MAIN IMPACT WILL CONTINUE TO BE CONVECTIVE PRECIPITATION...HEAVY AT TIMES...AND POTENTIAL FLOODING ACROSS FLORIDA.

CARIBBEAN SEA...

A SURFACE TROUGH CURRENTLY EXTENDING FROM THE NORTHERN YUCATAN PENINSULA TO GUATEMALA ALONG WITH ABUNDANT MOISTURE OVER THE FAR NW CARIBBEAN SUPPORT SCATTERED SHOWERS AND TSTMS W OF 84W. MODERATE SHALLOW MOISTURE OVER THE SW BASIN AND THE MONSOON TROUGH EXTENDING FROM COSTA RICA TO NORTHERN COLOMBIA SUPPORT ISOLATED SHOWERS AND TSTMS S OF 10N. SIMILAR CONVECTION IS OBSERVED OVER HISPANIOLA BEING INFLUENCED BY TROPICAL STORM JOAQUIN LOCATED IN THE SW N ATLC. SEE SPECIAL FEATURES FOR MORE

INFORMATION. WATER VAPOR IMAGERY INDICATE RELATIVELY STRONG DRY AIR ALOFT IN ASSOCIATION WITH A BROAD AND ELONGATED UPPER LEVEL LOW CENTERED NEAR 17N62W. OTHERWISE...MAINLY FRESH TO OCCASIONAL STRONG TRADES PERSIST WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

MOISTURE ASSOCIATED WITH THE RECENTLY UPGRADED TROPICAL STORM JOAQUIN IN THE SW N ATLC IS BEING ADVECTED BY CYCLONIC FLOW ACROSS THE ISLAND...THUS SUPPORTING ISOLATED SHOWERS AND TSTMS. PRECIPITATION ACTIVITY IS EXPECTED TO CEASE LATE TUESDAY AS THE STORM MOVES W-NW OVER ATLC WATERS.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLC IS RECENTLY UPGRADED TROPICAL STORM JOAQUIN DISCUSSED IN SPECIAL FEATURES. THE REMAINDER OF THE SW NORTH ATLC IS UNDER THE INFLUENCE OF MOSTLY NORTH-NORTHEASTERLY FLOW ALOFT ON THE EASTERN PERIPHERY OF AN UPPER LEVEL RIDGE ANCHORED OVER THE OFFSHORE WATERS OF THE FLORIDA PENINSULA NEAR 29N77W. TO THE ESE OF JOAQUIN...A LARGE AREA OF DISTURBED WEATHER IS IN THE CENTRAL ATLC ASSOCIATED WITH A FRONTAL TROUGH AND THE REMNANTS OF IDA. THE CENTER OF THIS DISTURBANCE IS A 1008 MB LOW NEAR 23N53W FROM WHICH A TROUGH EXTENDS SW TO 18N55W. SCATTERED MODERATE CONVECTION AND TSTMS ARE FROM 19N TO 24N BETWEEN 48W AND 55W. SIMILAR CONVECTION IS FROM 24N TO 28N BETWEEN 55W AND 60W. AN UPPER TROUGH CONTINUES TO SUPPORT A STATIONARY FRONT ALONG 29N33W TO 27N50W TO 27N60W WHERE IT STARTS TO DISSIPATE.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

AGXX40 KNHC 290711
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
309 AM EDT TUE SEP 29 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. HIGH CONFIDENCE.

DEEP LAYERED LOW ALONG THE TEXAS COAST WITH A QUASI-STATIONARY
1006 MB SFC LOW SE OF GALVESTON. THE ASSOCIATED NEGATIVELY
TILTED UPPER TROUGH IS PIVOTING NORTHWARD OVER THE NE GULF. A
PAIR OF SURFACE LOWS...1007 MB CENTERED JUST S OF PENSACOLA AND
A 1007 MB LOW CENTERED NEAR 27N84W ARE MOVING NE AND SHOULD MOVE
ACROSS THE FLORIDA PANHANDLE AND THE W COAST OF FLORIDA WITHIN
THE NEXT 6 HOURS. RECENT ASCAT A AND ASCAT B PASSES OVER THE ERN
GULF INDICATED THAT THE WINDS E OF THE SURFACE LOWS HAVE DROPPED
TO 20-25 KT AND THEREFORE THE GALE WARNING WILL BE ALLOWED TO
EXPIRE AT 0600 UTC. SOUTHERLY SQUALLS OCCURRING OVER THE
EXTREME ERN GULF WILL SHIFT NE OF THE AREA LATER TODAY AS THE
LOW PRES AREAS MOVE FURTHER INLAND.

GLOBAL MODELS ARE IN AGREEMENT SHOWING THE UPPER LOW OPENING
INTO A TROUGH AND WEAKENING AS IT SHIFTS EAST ACROSS THE LOWER
MISSISSIPPI VALLEY AND NORTHERN GULF. THE LOW PRES OVER THE NW
GULF WILL WEAKEN TO A TROUGH AND DRIFT ACROSS THE GULF...LEAVING
A DRIER PATTERN WITH GENTLE TO MODERATE W FLOW VEERING NW TO N.
A WEAK COLD FRONT IS EXPECTED TO MOVE INTO THE NORTHERN GULF
THU...AND AS HIGH PRES BUILDS IN THU NIGHT AND FRI NORTHERLY
WINDS INCREASE TO 15-20 KT WITH LOCALLY HIGHER WINDS ALONG THE
MEXICAN COAST NEAR VERACRUZ. WINDS VEER OVER THE W GULF SAT AND
DECREASE OVER THE ENTIRE AREA.

...CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. HIGH CONFIDENCE.

ASCAT A AND B PASSES INDICATED MODERATE TRADE WINDS OFF COLOMBIA AND ELSEWHERE OVER THE CARIBBEAN S OF 15N BETWEEN 68W AND 78W . IT APPEARS THE RIDGE IN THE ATLANTIC HAS BEGUN TO WEAKEN AS T.S JOAQUIN CONTINUES TO SPIN UP SEVERAL HUNDRED MILES NE OF THE BAHAMAS. THE SLOW MOVEMENT OF JOAQUIN AND THE PRESENCE OF GENERAL TROUGHINESS OVER THE SW N ATLC SHOULD KEEP SUBNORMAL TRADES ACROSS THE BASIN THROUGH THE END OF THE WEEK. NO MAJOR DIFFERENCES IN MODEL OUTPUT.

...SW N ATLANTIC INCLUDING THE BAHAMAS...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS AND TCM WINDS. LATEST TAFB NWPS FOR WAVE PARAMETERS. MEDIUM CONFIDENCE.

THE MAIN FORECAST ISSUE CONCERNS THE MOVEMENT AND INTENSITY OF WHAT IS NOW TROPICAL STORM JOAQUIN. JOAQUIN IS FORECAST TO MOVE SLOWLY WESTWARD FOR THE NEXT 48 HOURS OR SO BEFORE ACCELERATING NORTHWARD OVER THE WESTERN ATLC. CURRENTLY MAXIMUM SUSTAINED WINDS ARE 35 KT WITH GUSTS TO 45 KT. BUOY OBSERVATIONS CONTINUE TO INDICATE NE SWELL GENERATED FROM A LARGE FETCH AREA OF STRONG EASTERLY WINDS OVER THE SUBTROPICAL ATLC WATERS HAS REACHED THE ENTIRE AREA N OF THE BAHAMAS. WAVE GUIDANCE INDICATES THE SWELL WILL REMAIN ACROSS THE NORTHERN PART OF THE AREA MIXING IN WITH WIND GENERATED SEAS AND SWELLS GENERATED BY JOAQUIN. AS JOAQUIN SHIFTS N OF THE AREA LATE THU AND FRI...LIGHT TO GENTLE BREEZES AND SEAS 4 TO 6 FT WILL PREVAIL NE OF THE BAHAMAS INTO FRI. A COLD FRONT WILL MOVE INTO THE WATERS OFF NE FLORIDA FRI INTO SAT FOLLOWED BY MODERATE TO FRESH NORTHERLY FLOW AND SEAS TO 7 FT. THE OFFICIAL FORECAST FOR THE PERIPHERAL WINDS AROUND JOAQUIN IS A GENERAL BLEND OF GFS AND ECMWF GUIDANCE.

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.WARNINGS...ANY CHANGES IMPACTING COASTAL NWS OFFICES WILL BE COORDINATED THROUGH AWIPS 12 PLANET CHAT OR BY TELEPHONE:

.GULF OF MEXICO...
NONE.

.CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND 64W...
NONE.

.SW N ATLANTIC INCLUDING THE BAHAMAS...
.AMZ113...ATLANTIC FROM 27N TO 31N BETWEEN 70W AND 77W...
TROPICAL STORM WARNING TONIGHT INTO TUE NIGHT.

.AMZ115...ATLANTIC FROM 27N TO 31N BETWEEN 65W AND 70W...
TROPICAL STORM WARNING TONIGHT INTO TUE.

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*FOR DETAILED ZONE DESCRIPTIONS PLEASE VISIT:
[HTTP://WWW.NHC.NOAA.GOV/ABOUTAFBPROD.SHTML#OWF](http://www.nhc.noaa.gov/abouttafbprod.shtml#owf)

NOTE: GRIDDED MARINE FORECASTS ARE AVAILABLE IN THE
NATIONAL DIGITAL FORECAST DATABASE (NDFD) AT:
[HTTP://WWW.NHC.NOAA.GOV/MARINE/GRIDS.PHP](http://www.nhc.noaa.gov/marine/grids.php)

FOR ADDITIONAL INFORMATION PLEASE VISIT:
[HTTP://WWW.HURRICANE WARNINGS.GOV/MARINE](http://www.hurricanewarnings.gov/marine)

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.FORECASTER COBB. NATIONAL HURRICANE CENTER.

FKNT21 KNHC 290832
TCANT1

TROPICAL STORM JOAQUIN ICAO ADVISORY NUMBER 6
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC TUE SEP 29 2015

TC ADVISORY

DTG: 20150929/0900Z
TCAC: KNHC
TC: JOAQUIN
NR: 006
PSN: N2636 W07036
MOV: W 04KT
C: 1002HPA
MAX WIND: 035KT
FCST PSN + 06 HR: 291500 N2636 W07104
FCST MAX WIND + 06 HR: 040KT
FCST PSN + 12 HR: 292100 N2637 W07131
FCST MAX WIND + 12 HR: 040KT
FCST PSN + 18 HR: 300300 N2640 W07158
FCST MAX WIND + 18 HR: 040KT
FCST PSN + 24 HR: 300900 N2643 W07221
FCST MAX WIND + 24 HR: 040KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150929/1500Z

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WTNT21 KNHC 290832
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 6
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC TUE SEP 29 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL STORM CENTER LOCATED NEAR 26.6N 70.6W AT 29/0900Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE WEST OR 270 DEGREES AT 4 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1002 MB
MAX SUSTAINED WINDS 35 KT WITH GUSTS TO 45 KT.
34 KT..... 0NE 60SE 0SW 0NW.
12 FT SEAS.. 0NE 90SE 0SW 0NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 26.6N 70.6W AT 29/0900Z
AT 29/0600Z CENTER WAS LOCATED NEAR 26.6N 70.4W

FORECAST VALID 29/1800Z 26.6N 71.3W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 30NE 60SE 20SW 20NW.

FORECAST VALID 30/0600Z 26.7N 72.2W
MAX WIND 40 KT...GUSTS 50 KT.
34 KT... 30NE 60SE 30SW 30NW.

FORECAST VALID 30/1800Z 26.8N 72.8W
MAX WIND 45 KT...GUSTS 55 KT.
34 KT... 50NE 70SE 50SW 50NW.

FORECAST VALID 01/0600Z 27.1N 73.2W
MAX WIND 50 KT...GUSTS 60 KT.
50 KT... 30NE 30SE 20SW 30NW.
34 KT... 70NE 70SE 70SW 70NW.

FORECAST VALID 02/0600Z 28.5N 73.5W
MAX WIND 55 KT...GUSTS 65 KT.
50 KT... 40NE 40SE 30SW 30NW.
34 KT... 90NE 90SE 80SW 80NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 03/0600Z 32.0N 73.0W
MAX WIND 55 KT...GUSTS 65 KT.

OUTLOOK VALID 04/0600Z 36.5N 73.0W
MAX WIND 55 KT...GUSTS 65 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 26.6N 70.6W

NEXT ADVISORY AT 29/1500Z

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FORECASTER BRENNAN

WTNT31 KNHC 290833
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 6
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT TUE SEP 29 2015

...JOAQUIN MOVING WESTWARD WITH NO CHANGE IN STRENGTH...

SUMMARY OF 500 AM EDT...0900 UTC...INFORMATION

LOCATION...26.6N 70.6W
ABOUT 385 MI...620 KM NE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...40 MPH...65 KM/H
PRESENT MOVEMENT...W OR 270 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...1002 MB...29.59 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 AM EDT (0900 UTC), the center of Tropical Storm Joaquin was located near latitude 26.6 North, longitude 70.6 West. Joaquin is moving toward the west near 5 mph (7 km/h), and this general motion is expected to continue through Wednesday. A decrease in forward speed and a turn toward the west-northwest are forecast by Wednesday night.

Maximum sustained winds are near 40 mph (65 km/h) with higher gusts. Slow strengthening is forecast during the next 48 hours.

Tropical storm force winds extend outward up to 70 miles (110 km) from the center.

The estimated minimum central pressure is 1002 mb (29.59 inches).

HAZARDS AFFECTING LAND

None.

NEXT ADVISORY

Next complete advisory at 1100 AM EDT.

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Forecaster Brennan

WTNT41 KNHC 290837
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 6
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT TUE SEP 29 2015

The low-level center of Joaquin remains exposed on the northwestern edge of the deep convection due to about 20 kt of shear. A pair of ASCAT passes around 01-02Z showed peak winds of around 35 kt, and that remains the intensity for this advisory, in agreement with the latest TAFB and SAB Dvorak estimates. The ASCAT data were also used to adjust the initial 34-kt wind radii.

After moving quickly southwestward earlier, the center of Joaquin appears to be moving more slowly westward at about 4 kt. The track forecast remains highly uncertain, and if anything, the spread in the track model guidance is larger now beyond 48 hours due to uncertainty in the evolution of the synoptic-scale flow and the structure of Joaquin. In particular, the global models are having trouble with the evolution of a deep layer trough over the southeastern U.S. late in the forecast period, with added uncertainty about the structure of Joaquin and how it might interact with the trough. The latest runs of the UKMET and ECMWF bring Joaquin farther southwest early in the period and then show a northward and northeastward motion, respectively, ahead of the trough at days 4 and 5. The GFS shows a weaker Joaquin being absorbed into a frontal zone off the U.S. east coast in 3 to 4 days, while the HWRF and GFDL continue to show a faster northward and then northwestward track. In the first 48 hours, the new NHC track is a little to the south of the previous one accounting for the initial position and motion and a trend toward the multi-model consensus. At days 3 through 5, the official forecast is a little to the right of and slower than the previous one given the large spread in the track guidance. Needless to say, confidence in the details of the track forecast, especially beyond 48 hours, is extremely low.

The SHIPS model output shows moderate to strong northerly shear continuing over the cyclone for the next 24 to 36 hours, which should only allow for slow strengthening. After that time, the shear decreases a bit and the cyclone could strengthen a little more while over warm waters. However, there is a lot of spread in the intensity guidance as well. As noted above, the latest run of the GFS dissipates Joaquin in 3 to 4 days. On the other hand, the ECMWF and UKMET show the cyclone deepening considerably in the short term,

while the HWRF and GFDL show more strengthening later in the period. Given the uncertainty in Joaquin's structure and track, the new NHC forecast remains conservative, and is closest to the SHIPS model and below the intensity consensus.

FORECAST POSITIONS AND MAX WINDS

INIT	29/0900Z	26.6N	70.6W	35 KT	40 MPH
12H	29/1800Z	26.6N	71.3W	40 KT	45 MPH
24H	30/0600Z	26.7N	72.2W	40 KT	45 MPH
36H	30/1800Z	26.8N	72.8W	45 KT	50 MPH
48H	01/0600Z	27.1N	73.2W	50 KT	60 MPH
72H	02/0600Z	28.5N	73.5W	55 KT	65 MPH
96H	03/0600Z	32.0N	73.0W	55 KT	65 MPH
120H	04/0600Z	36.5N	73.0W	55 KT	65 MPH

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Forecaster Brennan

FZNT23 KNHC 290923
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
523 AM EDT TUE SEP 29 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-292130-
BAHAMAS INCLUDING CAY SAL BANK-
523 AM EDT TUE SEP 29 2015

.TODAY...NW WINDS 10 TO 15 KT. SEAS 7 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE.
.TONIGHT...NW WINDS 10 TO 15 KT. SEAS 7 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED...W TO NW WINDS 10 TO 15 KT. SEAS 7 TO 8 FT ATLC
EXPOSURES...AND 4 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED
TSTMS.
.WED NIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 8 FT ATLC
EXPOSURES...AND 4 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED
TSTMS.
.THU...W TO NW WINDS 10 TO 15 KT. SEAS 8 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE.
.THU NIGHT...W TO NW WINDS 10 TO 15 KT. SEAS 7 FT ATLC
EXPOSURES...AND 4 FT ELSEWHERE.
.FRI...W WINDS 10 TO 15 KT. SEAS 6 FT.
.FRI NIGHT...SW TO W WINDS 10 TO 15 KT. SEAS 5 TO 6 FT ATLC
EXPOSURES...AND 3 TO 4 FT ELSEWHERE.
.SAT...W WINDS 10 TO 15 KT. SEAS 5 FT.

\$\$

AMZ119-292130-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
523 AM EDT TUE SEP 29 2015

...TROPICAL STORM WARNING...

.TODAY...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...W TO NW WINDS 30 TO 40 KT. SEAS 11 FT. ELSEWHERE...SW TO W WINDS 10 TO 15 KT. SEAS 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.TONIGHT...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...W WINDS 35 TO 40 KT. SEAS 11 FT. ELSEWHERE...SW TO W WINDS 10 TO 15 KT. SEAS 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N... SW TO W WINDS 35 TO 45 KT. SEAS 12 FT. ELSEWHERE...SW TO W WINDS 10 TO 15 KT. SEAS 7 TO 8 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED NIGHT...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...SW TO W WINDS 45 TO 50 KT. SEAS 11 TO 12 FT. ELSEWHERE...SW WINDS 10 TO 15 KT. SEAS 8 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.THU...SW WINDS 40 TO 50 KT N OF 25N...AND SW 10 TO 15 KT ELSEWHERE. SEAS 8 TO 10 FT.

.THU NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.

.FRI...SW WINDS 10 TO 15 KT. SEAS 6 TO 7 FT.

.FRI NIGHT...SW TO W WINDS 15 TO 20 KT. SEAS 6 FT.

.SAT...SW TO W WINDS 15 TO 20 KT. SEAS 6 FT.

FZNT02 KNHC 290939
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1030 UTC TUE SEP 29 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC TUE SEP 29.
24 HOUR FORECAST VALID 0600 UTC WED SEP 30.
48 HOUR FORECAST VALID 0600 UTC THU OCT 01.

.WARNINGS.

...ATLC TROPICAL STORM WARNING...

.TROPICAL STORM JOAQUIN NEAR 26.6N 70.6W 1002 MB AT 0900 UTC SEP 29 MOVING W OR 270 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM SE QUADRANT WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.7N 72.2W. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 30 NM OF CENTER EXCEPT 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 120 NM SE AND 60 NM NW SEMICIRCLES WITH SEAS TO 15 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 10 FT.

.48 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 27.1N 73.2W. MAXIMUM SUSTAINED WINDS 50 KT GUSTS 60 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM OF CENTER. SEAS 12 FT OR GREATER WITHIN 120 NM OF CENTER WITH SEAS TO 18 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 8 TO 10 FT.

.72 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 28.5N 73.5W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. EXTENDED

OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 32.0N 73.0W.

MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.
.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 36.5N 73.0W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 27N35W TO 26N50W THEN STATIONARY THROUGH 27N60W TO 31N70W. N OF FRONT E OF 58W NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 15 FT. N OF FRONT W OF 58W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 14 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.S. JOAQUIN...N OF LINE FROM 26N35W TO 22N55W TO 25N65W TO 31N78W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN NE SWELL.

.24 HOUR FORECAST STATIONARY FRONT FROM 26N35W TO 24N45W THEN DISSIPATING FRONT TO 27N60W. N OF FRONT E OF 50W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 12 FT. N OF FRONT W OF 50W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 12 FT. ELSEWHERE N OF LINE FROM 24N35W TO 25N50W TO 22N60W TO 31N65W...WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN NE TO E SWELL.

.48 HOUR FORECAST FRONT DISSIPATED. BROAD LOW PRES NEAR 25.5N59W 1009 MB. N OF 28N BETWEEN 52W AND 64W E TO SE WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. ELSEWHERE N OF 26N BETWEEN 50W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13N BETWEEN 70W AND 75W NE TO E WINDS 20 TO 25 KT. SEAS TO 8 FT.

.12 HOUR FORECAST FROM 11N TO 13N BETWEEN 69W AND 74W NE TO E WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.GULF OF MEXICO LOW PRES NEAR 268N84W 1006 MB. N OF 26N E OF 84W S WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.06 HOUR FORECAST LOW PRES INLAND NEAR 29N83W. WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER COBB. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 290953

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1030 UTC TUE SEP 29 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0600 UTC SEP 29

24 HOUR FORECAST VALID 0600 UTC SEP 30

48 HOUR FORECAST VALID 0600 UTC OCT 01

.WARNINGS.

...GALE WARNING...

.LOW 63N51W 988 MB MOVING NE 15 KT. FRONT EXTENDS FROM CENTER TO 59N48W TO 58N46W. WITHIN 120 NM E SEMICIRCLE AND W QUADRANT WINDS 25 TO 35 KT. SEAS 10 TO 16 FT. ELSEWHERE FROM 58N TO 64N BETWEEN 48W AND 56W WINDS 20 TO 30 KT. SEAS 9 TO 13 FT.

.24 HOUR FORECAST LOW INLAND OVER GREENLAND.

...GALE WARNING...

.LOW 59N42W 998 MB MOVING NE 25 KT. FROM 51N TO 59N E OF 38W WINDS 25 TO 35 KT. SEAS 9 TO 13 FT. ELSEWHERE FROM 49N TO 61N E OF 40W WINDS 20 TO 30 KT. SEAS TO 11 FT.

.24 HOUR FORECAST LOW AND CONDITIONS E OF AREA.

...GALE WARNING...

.WITHIN 360 NM NE AND E OF A LINE FROM 34N75W TO 31N71W ALSO S OF A LINE FROM 37N70W TO 34N57W TO 31N47W WINDS 20 TO 30 KT. SEAS 9 TO 14 FT.

.24 HOUR FORECAST S OF 40N BETWEEN 67W AND 73W...ALSO S OF A LINE FROM 40N69W TO 33N60W TO 31N50W WINDS TO 25 KT. SEAS TO 11 FT.

.48 HOUR FORECAST FROM 46N TO 50N W OF 60W WINDS 25 TO 35 KT.

SEAS TO 10 FT. ELSEWHERE S OF 46N BETWEEN 60W AND 72W...AND W OF A LINE FROM 38N73W TO 46N64W WINDS 20 TO 30 KT. SEAS TO 11 FT.

...GALE WARNING...

.24 HOUR FORECAST LOW 60N52W 1006 MB. FROM 56N TO 60N E OF 43W...ALSO WITHIN 240 NM S SEMICIRCLE...AND N OF 64N E OF 39W WINDS TO 25 KT. SEAS TO 11 FT.

.48 HOUR FORECAST LOW 64N38W 1003 MB. BETWEEN 120 NM AND 300 NM S SEMICIRCLE WINDS 25 TO 35 KT. SEAS TO 12 FT.

.SYNOPSIS AND FORECAST.

.FROM 43N TO 50N BETWEEN 40W AND 65W WINDS TO 25 KT. SEAS TO 9 FT.

.24 HOUR FORECAST WITHIN 120 NM E AND SE OF A LINE FROM 51N58W TO 46N65W WINDS 20 TO 30 KT. SEAS TO 8 FT.

.48 HOUR FORECAST CONDITIONS DIMINISHED.

.48 HOUR FORECAST LOW E OF AREA 38N29W 999 MB. WITHIN 480 NM NW QUADRANT WINDS 20 TO 30 KT. SEAS 9 TO 13 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS WITHIN 180 NM NE OF A LINE FROM 52N54W TO 46N49W...ALSO FROM 53N TO 58N BETWEEN 37W AND 43W.

.24 HOUR FORECAST DENSE FOG FROM 51N TO 59N E OF 48W...ALSO FROM 45N TO 54N BETWEEN 47W AND 53W...AND FROM 47N TO 50N W OF 61W.

.48 HOUR FORECAST DENSE FOG WITHIN 180 NM SE OF A LINE FROM 57N38W TO 53N43W...ALSO FROM 45N TO 52N BETWEEN 46W AND 52W.

.HIGH 38N53W 1030 MB MOVING N 10 KT.

.24 HOUR FORECAST HIGH 41N53W 1028 MB.

.48 HOUR FORECAST HIGH 44N51W 1026 MB.

.FORECASTER SHAW. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC TUE SEP 29.

24 HOUR FORECAST VALID 0600 UTC WED SEP 30.

48 HOUR FORECAST VALID 0600 UTC THU OCT 01.

.WARNINGS.

...ATLC TROPICAL STORM WARNING...

.TROPICAL STORM JOAQUIN NEAR 26.6N 70.6W 1002 MB AT 0900 UTC SEP 29 MOVING W OR 270 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM SE QUADRANT WITH SEAS TO 13 FT. ELSEWHERE WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.7N 72.2W. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 30 NM OF CENTER EXCEPT 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 120 NM SE AND 60 NM NW SEMICIRCLES WITH SEAS TO 15 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 8 TO 10 FT.

.48 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 27.1N 73.2W. MAXIMUM SUSTAINED WINDS 50 KT GUSTS 60 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM OF CENTER. SEAS 12 FT OR GREATER WITHIN 120 NM OF CENTER WITH SEAS TO 18 FT. ELSEWHERE WITHIN 120 NM NE AND 45 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 8 TO 10 FT.

.72 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 28.5N 73.5W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 32.0N 73.0W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 36.5N 73.0W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.
FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 27N35W TO 26N50W THEN STATIONARY THROUGH
27N60W TO 31N70W. N OF FRONT E OF 58W NE TO E WINDS 20 TO 30 KT.
SEAS 8 TO 15 FT. N OF FRONT W OF 58W E TO SE WINDS 20 TO 25 KT.
SEAS 9 TO 14 FT. ELSEWHERE...EXCEPT AS NOTED WITH T.S.

JOAQUIN...N OF LINE FROM 26N35W TO 22N55W TO 25N65W TO 31N78W
WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN NE SWELL.

.24 HOUR FORECAST STATIONARY FRONT FROM 26N35W TO 24N45W THEN
DISSIPATING FRONT TO 27N60W. N OF FRONT E OF 50W NE TO E WINDS
20 TO 25 KT. SEAS 8 TO 12 FT. N OF FRONT W OF 50W E TO SE WINDS
20 TO 25 KT. SEAS 9 TO 12 FT. ELSEWHERE N OF LINE FROM 24N35W
TO 25N50W TO 22N60W TO 31N65W...WINDS 20 KT OR LESS. SEAS 8 TO
10 FT IN NE TO E SWELL.

.48 HOUR FORECAST FRONT DISSIPATED. BROAD LOW PRES NEAR 25.5N59W
1009 MB. N OF 28N BETWEEN 52W AND 64W E TO SE WINDS 20 TO 30 KT.
SEAS 8 TO 12 FT. ELSEWHERE N OF 26N BETWEEN 50W AND 65W WINDS 20
KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.CARIBBEAN S OF 13N BETWEEN 70W AND 75W NE TO E WINDS 20 TO 25
KT. SEAS TO 8 FT.

.12 HOUR FORECAST FROM 11N TO 13N BETWEEN 69W AND 74W NE TO E
WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8
FT.

.GULF OF MEXICO LOW PRES NEAR 26.8N84W 1006 MB. N OF 26N E OF 84W
S WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.06 HOUR FORECAST LOW PRES INLAND NEAR 29N83W. WINDS 20 KT OR
LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER COBB. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 291021
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT TUE SEP 29 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1015 UTC.

...SPECIAL FEATURES...

TROPICAL STORM JOAQUIN IS LOCATED AT 26.6N 70.6W AT 0900 UTC OR ABOUT 334 NM NE OF THE CENTRAL BAHAMAS. THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 1002 MB. MAXIMUM SUSTAINED WIND SPEED IS 35 KT WITH GUSTS TO 45 KT. NUMEROUS MODERATE/ISOLATED STRONG CONVECTION IS FROM 23N-26N BETWEEN 68W-71W...SCATTERED MODERATE CONVECTION AND ISOLATED TSTMS ARE ELSEWHERE FROM 20N-27N BETWEEN 66W-73W. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC E OF THE CAPE VERDE ISLANDS WITH TILTED AXIS EXTENDING FROM 16N18W SW TO A 1010 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 10N23W. SSM/I TOTAL PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED MAINLY IN A MODERATE MOIST ENVIRONMENT THAT ALONG WITH MIDDLE LEVEL DIFFLUENCE AHEAD OF THE SURFACE LOW SUPPORT SCATTERED TO ISOLATED MODERATE CONVECTION AND TSTMS WITHIN 100 NM EITHER SIDE OF THE WAVE AXIS AND FROM 06N TO 12N BETWEEN 22W AND 26W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE AFRICAN COAST NEAR 11N15W TO A 1010 MB LOW NEAR 10N23W TO 09N35W TO 09N43W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N43W TO THE COAST OF GUYANA NEAR 06N57W. ASIDE FROM THE CONVECTION ASSOCIATED WITH THE TROPICAL WAVE...SCATTERED MODERATE CONVECTION IS FROM 04N-07N

BETWEEN 15W-24W AND FROM 05N TO 12N BETWEEN 26W AND 42W.

...DISCUSSION...

GULF OF MEXICO...

SURFACE LOW PRESSURE CONTINUES TO DOMINATE ACROSS THE GULF...EXCEPT IN THE SW BASIN WHERE A WEAK 1011 MB HIGH PRESSURE CENTER IS BEING ANALYZED. ALOFT...A MIDDLE TO UPPER LEVEL LOW AND ASSOCIATED TROUGH EXTEND FROM ARKANSAS SW TO CENTRAL MEXICO AND INFLUENCE A 1006 MB LOW PRESSURE CENTER LOCATED IN THE NW GULF NEAR 28N93W. ANOTHER 1006 MB LOW PRESSURE CENTER IS IN THE NE BASIN FROM WHICH A SURFACE TROUGH EXTENDS SE ALONG 28N83W TO 26N82W. TROUGHING AT THE UPPER LEVELS OVER THE WESTERN HALF OF THE BASIN AND A RIDGE OVER THE NW CARIBBEAN CONTINUE TO GENERATE A DIFFLUENT ENVIRONMENT ALOFT THAT ALONG WITH MOISTURE INFLOW FROM THE CARIBBEAN AND EPAC WATERS SUSTAIN SCATTERED MODERATE CONVECTION FROM 26N TO 29N E OF 84W AND ISOLATED SHOWERS ELSEWHERE SE OF A LINE FROM 29N89W TO 23N97W. EXCEPT FOR THE E GULF E OF 84W...WINDS ARE 15 KT OR LESS AND VARIABLE. THE UPPER LEVEL LOW AND ASSOCIATED NEARLY COLLOCATED SURFACE LOW IS EXPECTED TO BE SLOW TO MOVE THE NEXT FEW DAYS WHILE THE EASTERN GULF LOW ACCELERATES NORTHWARD TO THE FLORIDA BIG BEND REGION WITHIN THE NEXT 24 HOURS. ASIDE FROM POTENTIAL TROPICAL CYCLONE DEVELOPMENT...THE MAIN IMPACT WILL CONTINUE TO BE CONVECTIVE PRECIPITATION...HEAVY AT TIMES...AND POTENTIAL FLOODING ACROSS FLORIDA.

CARIBBEAN SEA...

A SURFACE TROUGH CURRENTLY EXTENDING FROM THE NORTHERN YUCATAN PENINSULA TO GUATEMALA ALONG WITH ABUNDANT MOISTURE OVER THE FAR NW CARIBBEAN SUPPORT SCATTERED SHOWERS AND TSTMS S OF 21N W OF 85W. MODERATE SHALLOW MOISTURE OVER THE SW BASIN AND THE MONSOON TROUGH EXTENDING FROM COSTA RICA TO NORTHERN COLOMBIA SUPPORT ISOLATED SHOWERS AND TSTMS S OF 10N. SIMILAR CONVECTION IS OBSERVED OVER HISPANIOLA BEING INFLUENCED BY TROPICAL STORM JOAQUIN LOCATED IN THE SW N ATLC. SEE SPECIAL FEATURES FOR MORE INFORMATION. WATER VAPOR IMAGERY INDICATE RELATIVELY STRONG DRY AIR ALOFT IN ASSOCIATION WITH A BROAD AND ELONGATED UPPER LEVEL LOW CENTERED NEAR 17N60W. OTHERWISE...MAINLY FRESH TO OCCASIONAL STRONG TRADES PERSIST WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

MOISTURE ASSOCIATED WITH TROPICAL STORM JOAQUIN IN THE SW N ATLC IS BEING ADVECTED BY CYCLONIC FLOW ACROSS THE ISLAND...THUS SUPPORTING ISOLATED SHOWERS AND TSTMS. PRECIPITATION ACTIVITY IS EXPECTED TO CEASE LATE TUESDAY AS THE STORM MOVES W-NW OVER ATLC WATERS.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLC IS TROPICAL STORM JOAQUIN DISCUSSED IN SPECIAL FEATURES. THE REMAINDER OF THE SW NORTH ATLC IS UNDER THE INFLUENCE OF MOSTLY NORTH-NORTHEASTERLY FLOW ALOFT ON THE EASTERN PERIPHERY OF AN UPPER LEVEL RIDGE ANCHORED OVER THE OFFSHORE WATERS OF THE FLORIDA PENINSULA NEAR 28N77W. TO THE ESE OF JOAQUIN...A LARGE AREA OF DISTURBED WEATHER IS IN THE CENTRAL ATLC ASSOCIATED WITH A FRONTAL TROUGH AND THE REMNANTS OF IDA. THE CENTER OF THIS DISTURBANCE IS A 1010 MB LOW NEAR 23N54W FROM WHICH A TROUGH EXTENDS FROM 24N57W TO THE LOW TO 20N52W. SCATTERED MODERATE CONVECTION AND TSTMS ARE FROM 20N TO 24N BETWEEN 49W AND 56W. A CLUSTER OF MODERATE/ISOLATED STRONG CONVECTION IS FROM 24N TO 27N BETWEEN 56W AND 59W. A BROAD UPPER TROUGH OVER THE CENTRAL N ATLC SUPPORTS A COLD FRONT ALONG 30N30W TO 25N40W TO 26N50W WHERE IT TRANSITIONS INTO A STATIONARY FRONT TO 27N60W TO 30N65W. SCATTERED MODERATE CONVECTION IS WITHIN 120 NM EITHER SIDE OF THE FRONTAL BOUNDARY.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

WTNT31 KNHC 291435
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 7
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
1100 AM EDT TUE SEP 29 2015

...JOAQUIN GRADUALLY STRENGTHENING WHILE DRIFTING WESTWARD...

SUMMARY OF 1100 AM EDT...1500 UTC...INFORMATION

LOCATION...26.5N 70.8W
ABOUT 425 MI...680 KM ENE OF THE NORTHWESTERN BAHAMAS
MAXIMUM SUSTAINED WINDS...45 MPH...75 KM/H
PRESENT MOVEMENT...W OR 260 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...1001 MB...29.56 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 AM EDT (1500 UTC), the center of Tropical Storm Joaquin was located near latitude 26.5 North, longitude 70.8 West. Joaquin is moving toward the west near 5 mph (7 km/h), and this general motion is expected to continue for the next 48 hours.

Maximum sustained winds have increased to near 45 mph (75 km/h) with higher gusts. Some strengthening is forecast during the next 48 hours.

Tropical storm force winds extend outward up to 70 miles (110 km) from the center.

The estimated minimum central pressure is 1001 mb (29.56 inches).

HAZARDS AFFECTING LAND

None.

NEXT ADVISORY

Next complete advisory at 500 PM EDT.

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Forecaster Pasch/Burke

WTNT21 KNHC 291435
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 7
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
1500 UTC TUE SEP 29 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

TROPICAL STORM CENTER LOCATED NEAR 26.5N 70.8W AT 29/1500Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE WEST OR 260 DEGREES AT 4 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1001 MB
MAX SUSTAINED WINDS 40 KT WITH GUSTS TO 50 KT.
34 KT..... 0NE 60SE 0SW 0NW.
12 FT SEAS.. 90NE 90SE 60SW 90NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 26.5N 70.8W AT 29/1500Z
AT 29/1200Z CENTER WAS LOCATED NEAR 26.5N 70.6W

FORECAST VALID 30/0000Z 26.4N 71.5W
MAX WIND 45 KT...GUSTS 55 KT.
34 KT... 30NE 60SE 20SW 20NW.

FORECAST VALID 30/1200Z 26.3N 72.4W
MAX WIND 45 KT...GUSTS 55 KT.
34 KT... 30NE 60SE 30SW 30NW.

FORECAST VALID 01/0000Z 26.2N 73.1W
MAX WIND 50 KT...GUSTS 60 KT.
50 KT... 30NE 20SE 20SW 30NW.
34 KT... 50NE 70SE 50SW 50NW.

FORECAST VALID 01/1200Z 26.1N 73.7W
MAX WIND 55 KT...GUSTS 65 KT.
50 KT... 30NE 30SE 20SW 30NW.
34 KT... 70NE 70SE 70SW 70NW.

FORECAST VALID 02/1200Z 26.0N 74.0W
MAX WIND 60 KT...GUSTS 75 KT.
50 KT... 40NE 40SE 30SW 40NW.

34 KT... 90NE 90SE 80SW 90NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 03/1200Z 29.0N 73.5W
MAX WIND 60 KT...GUSTS 75 KT.

OUTLOOK VALID 04/1200Z 34.0N 72.0W
MAX WIND 60 KT...GUSTS 75 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 26.5N 70.8W

NEXT ADVISORY AT 29/2100Z

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FORECASTER PASCH/BURKE

FKNT21 KNHC 291436
TCANT1

TROPICAL STORM JOAQUIN ICAO ADVISORY NUMBER 7
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
1500 UTC TUE SEP 29 2015

TC ADVISORY

DTG: 20150929/1500Z
TCAC: KNHC
TC: JOAQUIN
NR: 007
PSN: N2630 W07048
MOV: W 04KT
C: 1001HPA
MAX WIND: 040KT
FCST PSN + 06 HR: 292100 N2626 W07116
FCST MAX WIND + 06 HR: 045KT
FCST PSN + 12 HR: 300300 N2622 W07143
FCST MAX WIND + 12 HR: 045KT
FCST PSN + 18 HR: 300900 N2619 W07210
FCST MAX WIND + 18 HR: 045KT
FCST PSN + 24 HR: 301500 N2616 W07234
FCST MAX WIND + 24 HR: 045KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150929/2100Z

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WTNT41 KNHC 291441
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 7
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
1100 AM EDT TUE SEP 29 2015

1100 AM EDT TUE SEP 29 2015

Visible satellite imagery this morning shows that the cloud pattern of the tropical cyclone is somewhat better organized than it was 24 hours ago. The low-level center is situated near the northern side of the main area of deep convection due to northerly shear. The upper level outflow is well defined over the southern semicircle of the system, and restricted over the northern part of the circulation. The current intensity is conservatively set at 45 kt, which is a little below the latest Dvorak estimates. An Air Force plane will be investigating Joaquin in a few hours, and should provide a better estimate of intensity.

Based on the satellite center fixes, the initial motion continues to be slowly westward, or 260/04 kt. The forecast track in this advisory attempts to reconcile large model spread with an overall shift toward the southwest of the previous track through 72 hours. Joaquin is currently in a relatively weak steering pattern, but a building shortwave ridge in the northwestern Atlantic should allow the cyclone to drift west and then west-southwestward. This pushes the storm in the direction of the Bahamas, but the deterministic and ensemble model consensus still shows a good likelihood that Joaquin will stop fairly well short of the Bahamas, and then begin accelerating to either the north or northeast. The 00Z ECMWF made a closer approach to the Bahamas, but it too turns the storm sharply and accelerates it back into the Atlantic beyond 72 hours. The official forecast is to the left of the previous forecast through 72 hours, and significantly slower at 4 and 5 days. It should be repeated that the confidence in the track forecast is very low.

The vertical shear is predicted by the dynamical models to decrease in 1 to 2 days. This should allow for additional strengthening, which is reflected in the official forecast. The NHC wind speed predictions may be conservative, since some of the guidance suggests that Joaquin could become a hurricane in a few days.

FORECAST POSITIONS AND MAX WINDS

INIT 29/1500Z 26.5N 70.8W 40 KT 45 MPH
12H 30/0000Z 26.4N 71.5W 45 KT 50 MPH
24H 30/1200Z 26.3N 72.4W 45 KT 50 MPH
36H 01/0000Z 26.2N 73.1W 50 KT 60 MPH
48H 01/1200Z 26.1N 73.7W 55 KT 65 MPH
72H 02/1200Z 26.0N 74.0W 60 KT 70 MPH
96H 03/1200Z 29.0N 73.5W 60 KT 70 MPH
120H 04/1200Z 34.0N 72.0W 60 KT 70 MPH

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Forecaster Pasch

WTNT41 KNHC 291445
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 7
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
1100 AM EDT TUE SEP 29 2015

Visible satellite imagery this morning shows that the cloud pattern of the tropical cyclone is somewhat better organized than it was 24 hours ago. The low-level center is situated near the northern side of the main area of deep convection due to northerly shear. The upper level outflow is well defined over the southern semicircle of the system, and restricted over the northern part of the circulation. The current intensity is conservatively set at 45 kt, which is a little below the latest Dvorak estimates. An Air Force plane will be investigating Joaquin in a few hours, and should provide a better estimate of intensity.

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The vertical shear is predicted by the dynamical models to decrease in 1 to 2 days. This should allow for additional strengthening, which is reflected in the official forecast. The NHC wind speed predictions may be conservative, since some of the guidance suggests that Joaquin could become a hurricane in a few days.

FORECAST POSITIONS AND MAX WINDS

INIT 29/1500Z 26.5N 70.8W 40 KT 45 MPH

12H 30/0000Z 26.4N 71.5W 45 KT 50 MPH
24H 30/1200Z 26.3N 72.4W 45 KT 50 MPH
36H 01/0000Z 26.2N 73.1W 50 KT 60 MPH
48H 01/1200Z 26.1N 73.7W 55 KT 65 MPH
72H 02/1200Z 26.0N 74.0W 60 KT 70 MPH
96H 03/1200Z 29.0N 73.5W 60 KT 70 MPH
120H 04/1200Z 34.0N 72.0W 60 KT 70 MPH

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Forecaster Pasch

FZNT23 KNHC 291547
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1147 AM EDT TUE SEP 29 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-300400-
BAHAMAS INCLUDING CAY SAL BANK-
1147 AM EDT TUE SEP 29 2015

.THIS AFTERNOON...NW WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT
IN THE AFTERNOON. SEAS 3 TO 5 FT.
.TONIGHT...NW WINDS 10 TO 15 KT. SEAS 3 TO 5 FT. SCATTERED
SHOWERS AND ISOLATED TSTMS.
.WED...W TO NW WINDS 10 TO 15 KT. SEAS 3 TO 5 FT. SCATTERED
SHOWERS AND ISOLATED TSTMS.
.WED NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. W TO NW WINDS
15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES... AND 4 FT ELSEWHERE.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.THU...TROPICAL STORM CONDITIONS POSSIBLE. W TO NW WINDS 20 TO
25 KT. SEAS 8 FT ATLC EXPOSURES... AND 4 FT ELSEWHERE.
.THU NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.
.FRI...TROPICAL STORM CONDITIONS POSSIBLE.
.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.
.SAT...W WINDS 10 TO 15 KT. SEAS 5 FT.

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AMZ119-300400-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1147 AM EDT TUE SEP 29 2015

...TROPICAL STORM WARNING...

.THIS AFTERNOON...TROPICAL STORM CONDITIONS. N OF 25N...W TO NW
WINDS 25 TO 30 KT...INCREASING TO 35 TO 40 KT IN THE AFTERNOON.

ELSEWHERE...SW TO W WINDS 10 TO 15 KT. SEAS 11 FT N OF 25N...AND
7 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.TONIGHT...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...W TO
NW WINDS 35 TO 40 KT. SEAS 11 FT. ELSEWHERE...SW TO W WINDS
15 TO 20 KT. SEAS 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...W TO NW
WINDS 35 TO 40 KT...BECOMING W 45 TO 50 KT IN THE AFTERNOON.
ELSEWHERE...SW TO W WINDS 20 TO 25 KT. SEAS 12 FT N OF 25N...AND
7 TO 8 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED NIGHT...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...SW
TO W WINDS 45 TO 50 KT. SEAS 11 TO 12 FT. ELSEWHERE...SW WINDS
20 TO 25 KT. SEAS 8 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
.THU...TROPICAL STORM CONDITIONS POSSIBLE. S TO SW WINDS 45 TO
55 KT N OF 25N...AND SW 20 TO 25 KT ELSEWHERE. SEAS 8 TO 10 FT.
.THU NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.
.FRI...HURRICANE CONDITIONS POSSIBLE.
.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.
.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

FZNT02 KNHC 291601
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1630 UTC TUE SEP 29 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1200 UTC TUE SEP 29.
24 HOUR FORECAST VALID 1200 UTC WED SEP 30.
48 HOUR FORECAST VALID 1200 UTC THU OCT 01.

.WARNINGS.

...ATLC TROPICAL STORM WARNING...

.TROPICAL STORM JOAQUIN NEAR 26.5N 70.8W 1001 MB AT 1500 UTC SEP 29 MOVING W OR 260 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 0 NM OF CENTER EXCEPT 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM OF CENTER EXCEPT 60 NM SW QUADRANT WITH SEAS TO 14 FT. ELSEWHERE WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 25N BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.3N 72.4W. MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT. TROPICAL STORM FORCE WINDS WITHIN 30 NM OF CENTER EXCEPT 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 120 NM SE AND 60 NM NW SEMICIRCLES WITH SEAS TO 16 FT. ELSEWHERE WITHIN 150 NM NE AND 60 SW SEMICIRCLE WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 24N BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.48 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.1N 73.7W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. TROPICAL STORM FORCE WINDS WITHIN 70 NM OF CENTER. SEAS 12 FT OR GREATER WITHIN 120 NM OF CENTER WITH SEAS TO 20 FT. ELSEWHERE WITHIN 180 NM NE AND 75 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER

OF AREA N OF 25N BETWEEN 65W AND 78W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.72 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.0N 74.0W.

MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.

EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 29.0N 73.5W.

MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 34.0N 72.0W.

MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 26N35W TO 25N45W TO 26N50W THEN STATIONARY TO 30N63W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 13 FT. ELSEWHERE WITHIN 180 NM N SEMICIRCLE OF LOW PRES 1009 MB NEAR 23N55W WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST STATIONARY FRONT FROM 27N35W TO 25N48W THEN TROUGH TO LOW PRES 1010 MB NEAR 26N63W. N OF FRONT AND TROUGH E OF 65W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 11 FT.

.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 26N35W TO 25N40W THEN TROUGH TO LOW PRES 1010 MB NEAR 26N57W. N OF 25N BETWEEN 48W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 10 FT.

.CARIBBEAN 06 HOUR FORECAST FROM 11N TO 13N BETWEEN 69W AND 74W NE TO E WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 291605

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1630 UTC TUE SEP 29 2015

CCODE/1:31:04:01:00/AOW/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 1200 UTC SEP 29

24 HOUR FORECAST VALID 1200 UTC SEP 30

48 HOUR FORECAST VALID 1200 UTC OCT 01

.WARNINGS.

...GALE WARNING...

.LOW 61N39W 1001 MB MOVING NE 25 KT. OVER FORECAST WATERS FROM 50N TO 63N E OF 38W WINDS 25 TO 35 KT. SEAS 8 TO 14 FT.

ELSEWHERE WITHIN 240 NM SW QUADRANT WINDS TO 25 KT. SEAS TO 9 FT.

.24 HOUR FORECAST LOW AND CONDITIONS E OF AREA.

...GALE WARNING...

.24 HOUR FORECAST NEW LOW 61N41W 1009 MB. WITHIN 420 NM SE QUADRANT WINDS 20 TO 30 KT. SEAS TO 11 FT.

.42 HOUR FORECAST LOW 65N37W 1003 MB. BETWEEN 120 NM AND 360 NM SW QUADRANT WINDS 25 TO 35 KT. SEAS TO 12 FT.

.48 HOUR FORECAST LOW 65N36W 1005 MB. OVER FORECAST WATERS FROM 59N TO 61N E OF 43W WINDS 25 TO 35 KT. SEAS 9 TO 13 FT.

ELSEWHERE WITHIN 420 NM S AND SW QUADRANTS WINDS TO 25 KT. SEAS TO 9 FT.

...GALE WARNING...

.24 HOUR FORECAST NEW LOW INLAND 41N76W 1004 MB. OVER FORECAST WATERS WITHIN 660 NM SE QUADRANT WINDS TO 25 KT. SEAS TO 11 FT.

.42 HOUR FORECAST LOW 46N64W 1008 MB. WITHIN 180 NM OF LOW CENTER AND W OF A LINE FROM 39N73W TO 45N65W WINDS 25 TO 35 KT. SEAS TO 12 FT.

.48 HOUR FORECAST LOW 48N61W 1009 MB. WITHIN 180 NM W SEMICIRCLE AND W OF A LINE FROM 38N74W TO 45N65W WINDS 25 TO 40 KT. SEAS TO 12 FT. ELSEWHERE WITHIN 240 NM SE QUADRANT AND 300 NM E OF A LINE FROM THE LOW TO 37N70W WINDS 20 TO 30 KT. SEAS TO 11 FT.

.SYNOPSIS AND FORECAST.

.LOW INLAND 65N50W 993 MB MOVING N 15 KT. OVER FORECAST WATERS WITHIN 180 NM SW QUADRANT WINDS 20 TO 30 KT. SEAS TO 11 FT.

.24 HOUR FORECAST LOW DISSIPATED INLAND. CONDITIONS DIMINISHED.

.FROM 31N TO 36N BETWEEN 47W AND 73W AREA OF W TO SW WINDS TO 25 KT. SEAS 8 TO 12 FT.

.24 HOUR FORECAST FROM 31N TO 36N BETWEEN 50W AND 73W W TO SW WINDS TO 25 KT. SEAS TO 11 FT.
.48 HOUR FORECAST FROM 31N TO 37N BETWEEN 54W AND 70W W TO SW WINDS TO 25 KT. SEAS TO 10 FT.
.OVER FORECAST WATERS FROM 43N TO 50N BETWEEN 50W AND 65W AREA OF W TO SW WINDS TO 25 KT. SEAS TO 8 FT.
.24 HOUR FORECAST WITHIN 180 NM SE OF A LINE FROM 52N52W TO 47N63W WINDS TO 25 KT. SEAS TO 8 FT.
.48 HOUR FORECAST CONDITIONS DESCRIBED WITH LOW 48N61W IN WARNINGS SECTION ABOVE.
.LOW 56N60W 1002 MB MOVING NE 20 KT. WINDS LESS THAN 25 KT. SEAS LESS THAN 8 FT.
.24 HOUR FORECAST LOW 62N51W 1008 MB. WITHIN 180 NM SW QUADRANT WINDS TO 25 KT. SEAS TO 8 FT.
.48 HOUR FORECAST LOW DISSIPATED. CONDITIONS DIMINISHED.
.24 HOUR FORECAST LOW E OF AREA 39N30W 1002 MB. OVER FORECAST WATERS FROM 39N TO 45N E OF 38W WINDS 20 TO 30 KT. SEAS TO 12 FT.
.48 HOUR FORECAST LOW E OF AREA 38N29W 1000 MB. N AND E OF A LINE FROM 38N35W TO 38N41W TO 46N35W WINDS 20 TO 30 KT. SEAS TO 12 FT.
.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS FROM 52N TO 59N E OF 40W AND WITHIN 120 NM E OF A LINE FROM 54N54W TO 46N51W.
.24 HOUR FORECAST DENSE FOG WITHIN 360 NM SE OF A LINE FROM 52N54W TO 61N35W AND WITHIN 60 NM OF 43N68W.
.48 HOUR FORECAST DENSE FOG FROM 46N TO 51N BETWEEN 46W AND 52W.
.HIGH 38N53W 1031 MB MOVING NW 10 KT WILL TURN N AFTER 12 HOURS.
.24 HOUR FORECAST HIGH 42N53W 1028 MB.
.48 HOUR FORECAST HIGH 46N50W 1027 MB.
.48 HOUR FORECAST NEW HIGH 56N49W 1028 MB.
.FORECASTER REINHART. OCEAN PREDICTION CENTER.
NATIONAL HURRICANE CENTER MIAMI FL
ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.
SYNOPSIS VALID 1200 UTC TUE SEP 29.
24 HOUR FORECAST VALID 1200 UTC WED SEP 30.
48 HOUR FORECAST VALID 1200 UTC THU OCT 01.
.WARNINGS.
...ATLC TROPICAL STORM WARNING...
.TROPICAL STORM JOAQUIN NEAR 26.5N 70.8W 1001 MB AT 1500 UTC SEP 29 MOVING W OR 260 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 40 KT GUSTS 50 KT. TROPICAL STORM FORCE WINDS WITHIN 0 NM OF CENTER EXCEPT 60 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM OF CENTER EXCEPT 60 NM SW QUADRANT WITH SEAS TO 14 FT. ELSEWHERE WITHIN 120 NM E SEMICIRCLE WINDS 20 TO 30 KT. SEAS 10 TO 12 FT.
REMAINDER OF AREA N OF 25N BETWEEN 65W AND 75W WINDS 20 KT OR

LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.3N 72.4W.
MAXIMUM SUSTAINED WINDS 45 KT GUSTS 55 KT. TROPICAL STORM FORCE
WINDS WITHIN 30 NM OF CENTER EXCEPT 60 NM SE QUADRANT. SEAS 12
FT OR GREATER WITHIN 120 NM SE AND 60 NM NW SEMICIRCLES WITH
SEAS TO 16 FT. ELSEWHERE WITHIN 150 NM NE AND 60 SW SEMICIRCLE
WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 24N
BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN
MIXED SWELL.

.48 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.1N 73.7W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. TROPICAL STORM FORCE
WINDS WITHIN 70 NM OF CENTER. SEAS 12 FT OR GREATER WITHIN 120
NM OF CENTER WITH SEAS TO 20 FT. ELSEWHERE WITHIN 180 NM NE AND
75 SW SEMICIRCLE WINDS 25 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER
OF AREA N OF 25N BETWEEN 65W AND 78W OUTSIDE THE BAHAMAS WINDS
20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.72 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 26.0N 74.0W.
MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 29.0N 73.5W.
MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 34.0N 72.0W.
MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.
FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 26N35W TO 25N45W TO 26N50W THEN STATIONARY
TO 30N63W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 13
FT. ELSEWHERE WITHIN 180 NM N SEMICIRCLE OF LOW PRES 1009 MB
NEAR 23N55W WINDS 20 TO 25 KT. SEAS TO 8 FT.

.24 HOUR FORECAST STATIONARY FRONT FROM 27N35W TO 25N48W THEN
TROUGH TO LOW PRES 1010 MB NEAR 26N63W. N OF FRONT AND TROUGH E
OF 65W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 11 FT.

.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 26N35W TO
25N40W THEN TROUGH TO LOW PRES 1010 MB NEAR 26N57W. N OF 25N
BETWEEN 48W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 10 FT.

.CARIBBEAN 06 HOUR FORECAST FROM 11N TO 13N BETWEEN 69W AND 74W
NE TO E WINDS 20 TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST WINDS 20 KT OR LESS. SEAS LESS THAN 8
FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

WTNT41 KNHC 291650
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 7
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
1100 AM EDT TUE SEP 29 2015

CORRECTED INTENSITY TO 40 KT IN FIRST PARAGRAPH

Visible satellite imagery this morning shows that the cloud pattern of the tropical cyclone is somewhat better organized than it was 24 hours ago. The low-level center is situated near the northern side of the main area of deep convection due to northerly shear. The upper level outflow is well defined over the southern semicircle of the system, and restricted over the northern part of the circulation. The current intensity is conservatively set at 40 kt, which is a little below the latest Dvorak estimates. An Air Force plane will be investigating Joaquin in a few hours, and should provide a better estimate of intensity.

Based on the satellite center fixes, the initial motion continues to be slowly westward, or 260/04 kt. The forecast track in this advisory attempts to reconcile large model spread with an overall shift toward the southwest of the previous track through 72 hours. Joaquin is currently in a relatively weak steering pattern, but a building shortwave ridge in the northwestern Atlantic should allow the cyclone to drift west and then west-southwestward. This pushes the storm in the direction of the Bahamas, but the deterministic and ensemble model consensus still shows a good likelihood that Joaquin will stop fairly well short of the Bahamas, and then begin accelerating to either the north or northeast. The 00Z ECMWF made a closer approach to the Bahamas, but it too turns the storm sharply and accelerates it back into the Atlantic beyond 72 hours. The official forecast is to the left of the previous forecast through 72 hours, and significantly slower at 4 and 5 days. It should be repeated that the confidence in the track forecast is very low.

The vertical shear is predicted by the dynamical models to decrease in 1 to 2 days. This should allow for additional strengthening, which is reflected in the official forecast. The NHC wind speed predictions may be conservative, since some of the guidance suggests that Joaquin could become a hurricane in a few days.

FORECAST POSITIONS AND MAX WINDS

INIT 29/1500Z 26.5N 70.8W 40 KT 45 MPH
12H 30/0000Z 26.4N 71.5W 45 KT 50 MPH
24H 30/1200Z 26.3N 72.4W 45 KT 50 MPH
36H 01/0000Z 26.2N 73.1W 50 KT 60 MPH
48H 01/1200Z 26.1N 73.7W 55 KT 65 MPH
72H 02/1200Z 26.0N 74.0W 60 KT 70 MPH
96H 03/1200Z 29.0N 73.5W 60 KT 70 MPH
120H 04/1200Z 34.0N 72.0W 60 KT 70 MPH

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Forecaster Pasch/Burke

AXNT20 KNHC 291803
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 PM EDT TUE SEP 29 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 1200 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1715 UTC.

...SPECIAL FEATURES...

TROPICAL STORM JOAQUIN IS LOCATED AT 26.5N 70.8W AT 1500 UTC OR ABOUT 369 NM ENE OF THE NORTHWESTERN BAHAMAS MOVING W AT 4 KT. THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 1001 MB. MAXIMUM SUSTAINED WIND SPEED IS 40 KT WITH GUSTS TO 50 KT. NUMEROUS STRONG CONVECTION IS FROM 23N-26N BETWEEN 68W-72W. ELSEWHERE SCATTERED MODERATE TO ISOLATED STRONG CONVECTION IS FROM 20N-27N BETWEEN 67W-72W. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...TROPICAL WAVES...

A TROPICAL WAVE IS E OF THE CAPE VERDE ISLANDS FROM 16N20W TO 10N24W MOVING W AT 10 KT. SSMI TOTAL PRECIPITABLE WATER IMAGERY SHOWS THE WAVE IS EMBEDDED IN A MOIST ENVIRONMENT. CLUSTERS OF SCATTERED MODERATE CONVECTION ARE FROM 8N-17N BETWEEN 15W-28W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE AFRICAN COAST NEAR 13N17W TO 9N30W TO 10N35W TO 9N42W. THE ITCZ EXTENDS FROM 9N42W TO 8N50W TO 6N58W. BESIDES THE CONVECTION ASSOCIATED WITH THE TROPICAL WAVE...SCATTERED MODERATE CONVECTION IS FROM 4N-8N BETWEEN 15W-31W.

...DISCUSSION...

GULF OF MEXICO...

AS OF 1500 UTC... A 1008 MB LOW IS CENTERED OVER THE NW GULF OF MEXICO NEAR 28N94W. RADAR IMAGERY SHOWS SCATTERED SHOWERS FROM 26N-31N BETWEEN 93W-96W. A 1009 MB LOW IS CENTERED OVER THE FLORIDA PANHANDLE NEAR 30N86W. SCATTERED MODERATE CONVECTION IS WITHIN 90 NM OF THE CENTER WITH LOCALIZED FLOODING. ELSEWHERE... SCATTERED MODERATE TO ISOLATED STRONG CONVECTION IS OVER FLORIDA ...THE STRAITS OF FLORIDA...AND SE GULF...E OF A LINE FROM JACKSONVILLE FLORIDA TO THE YUCATAN PENINSULA AT 21N88W. IN THE UPPER LEVELS...A SHARP UPPER LEVEL TROUGH EXTENDS FROM E TEXAS AT 32N94W TO CENTRAL MEXICO AT 21N105W. SW UPPER LEVEL WINDS ARE OVER THE GULF WITH DIFFLUENT FLOW OVER THE NE GULF AND FLORIDA ENHANCING CONVECTION. EXPECT OVER THE NEXT 24 HOURS FOR THE LOW OVER THE NW GULF TO DISSIPATE...AND FOR THE FLORIDA PANHANDLE LOW TO MOVE NE TO SOUTH CAROLINA. ALSO EXPECT CONTINUED UPPER LEVEL DIFFLUENCE OVER FLORIDA AND THE SE GULF WITH CONVECTION.

CARIBBEAN SEA...

A SURFACE TROUGH EXTENDS FROM THE YUCATAN PENINSULA AT 22N86W TO BELIZE AT 18N89W TO EL SALVADOR AT 13N89W. SCATTERED MODERATE CONVECTION IS WITHIN 180 NM E OF THE TROUGH AXIS TO INCLUDE W CUBA AND THE GULF OF HONDURAS. A 1007 MB LOW IS CENTERED OVER N COLOMBIA NEAR 11N75W. ISOLATED MODERATE CONVECTION IS OVER N COLOMBIA...PANAMA...AND COSTA RICA. ELSEWHERE SCATTERED SHOWERS WITH ISOLATED THUNDERSTORMS ARE OVER HISPANIOLA DUE TO A SOUTHERN BAND OF TROPICAL STORM JOAQUIN. 10-20 KT TRADEWINDS ARE OVER THE CENTRAL AND EASTERN CARIBBEAN WITH MOSTLY FAIR WEATHER. WATER VAPOR IMAGERY SHOWS RELATIVELY STRONG DRY AIR ALOFT IN ASSOCIATION WITH A BROAD AND ELONGATED UPPER LEVEL LOW CENTERED OVER THE LEEWARD ISLANDS NEAR 17N63W. EXPECT OVER THE NEXT 24 HOURS FOR CONTINUED CONVECTION OVER THE YUCATAN PENINSULA... GUATEMALA...AND S MEXICO. ALSO EXPECT MORE CONVECTION OVER THE SW CARIBBEAN.

...HISPANIOLA...

SCATTERED SHOWERS WITH ISOLATED THUNDERSTORMS ARE OVER HISPANIOLA. EXPECT SIMILAR CONDITIONS OVER THE NEXT 24 HOURS WITH STRONGEST CONVECTION OVER HIGHER ELEVATIONS.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLANTIC IS TROPICAL STORM JOAQUIN. SEE ABOVE. FURTHER E... A 1009 MB LOW THE REMNANTS OF T.S.IDA IS CENTERED NEAR 23N56W. A SURFACE TROUGH EXTENDS FROM 25N60W TO

THE LOW CENTER TO 22N51W. SCATTERED MODERATE CONVECTION IS WITHIN 120 NM OF THE TROUGH AXIS. A COLD FRONT IS OVER THE CENTRAL ATLANTIC FROM 31N26W TO 25N40W TO 31N64W. SCATTERED MODERATE TO ISOLATED STRONG CONVECTION IS WITHIN 120 NM OF THE FRONT. OF NOTE IN THE UPPER LEVELS IS AN UPPER LEVEL LOW CENTERED NEAR 36N55W WITH UPPER LEVEL DIFFLUENCE SE OF THE CENTER ENHANCING CONVECTION.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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FORMOSA

AGXX40 KNHC 291847
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
247 PM EDT TUE SEP 29 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. HIGH CONFIDENCE.

A SHARP UPPER TROUGH ALONG THE COAST OF TEXAS IS PROVIDING SUPPORT
TO 1006 MB SURFACE LOW PRES CENTERED IN THE NW GULF NEAR 28N93W.
ANOTHER AREA OF LOW PRES THAT MOVED OFF THE YUCATAN PENINSULA
INTO
THE SOUTH CENTRAL GULF A COUPLE OF DAYS AGO IS NO LONGER EVIDENT
IN SATELLITE IMAGERY AND SURFACE OBSERVATIONS. WINDS HAVE
DIMINISHED ACCORDINGLY OVER THE EASTERN GULF OVER THE PAST 12
HOURS AND SURFACE OBSERVATIONS AND BUOY/PLATFORM OBSERVATIONS
ONLY
INDICATE LIGHT TO GENTLE SW BREEZES ACROSS MOST OF THE GULF. A FEW
THUNDERSTORMS PERSIST OVER THE FAR SE GULF AND NEAR THE YUCATAN
CHANNEL...AND NEAR THE SURFACE LOW IN THE NW GULF ASSOCIATED WITH
THE LIFT PROVIDED BY THE UPPER TROUGH OVER THE TEXAS COAST.

GLOBAL MODELS INDICATE THE UPPER TROUGH WILL DE-AMPLIFY SLIGHTLY
AS IT DRIFTS EAST ACROSS THE GULF THROUGH MID WEEK. THIS WILL
ALLOW THE LOW PRES TO FILL AND BECOME A TROUGH ORIENTED EAST TO
WEST. THE TROUGH WILL DRIFT INTO THE SOUTHERN GULF BY THU AND FRI
AHEAD
OF A COLD FRONT EXPECTED TO SLIP INTO THE NORTHERN GULF BY
THU...AND REACHING FROM THE BIG BEND AREA TO THE N CENTRAL GULF TO
THE CENTRAL TEXAS COAST BY EARLY FRI. MODERATE TO FRESH NORTHERLY
WINDS WILL FOLLOW THE FRONT. THE OFFICIAL FORECAST FOLLOWS GFS
REASONING ALLOWING FOR FRESH TO STRONG NW TO N WINDS TO FUNNEL
ALONG THE COAST OF VERACRUZ BY EARLY FRI. NO OTHER MAJOR
DIFFERENCES
IN MODEL OUTPUT ARE NOTED.

...CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR WAVE PARAMETERS. MEDIUM TO HIGH CONFIDENCE.

SHIP OBSERVATIONS AND SCATTEROMETER DATA FROM THIS MORNING INDICATED 15 TO 20 KT TRADE WINDS OVER THE S CENTRAL CARIBBEAN...WITH GENERALLY LIGHT TO GENTLE BREEZES ELSEWHERE. THE SUBTROPICAL RIDGE THAT IS USUALLY NORTH OF THE REGION RESPONSIBLE FOR MUCH OF THE STRONGER TRADE WIND FLOW HAS BEEN DISPLACED BY T.S. JOAQUIN NOW NE OF THE BAHAMAS. THIS IS RESULTING IN LIGHTER THAN NORMAL TRADE WIND FLOW. THIS TREND WILL CONTINUE AS THE RIDGE BRIEFLY BECOMES DISPLACED FARTHER SOUTH INTO THE NORTHERN CARIBBEAN. ASIDE FROM LIGHT WINDS...ANOTHER UNUSUAL IMPACT OF THIS WILL BE ANOMALOUS SW TO W WINDS OVER MUCH OF THE NW CARIBBEAN AND THE WINDWARD PASSAGE LATER THIS WEEK. DEPENDING ON THE TRACK AND INTENSITY OF JOAQUIN...THE SW FLOW MAY BE A SLIGHTLY STRONGER THAN ANTICIPATED. THE UKMET IS FORECASTING SW WINDS TO 25 NEAR THE WINDWARD PASSAGE BY EARLY FRI. OTHERWISE NO MAJOR DIFFERENCES IN MODEL OUTPUT.

...SW N ATLANTIC INCLUDING THE BAHAMAS...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS AND OFFICAL NHC FORECAST FOR JOAQUIN. WINDS. LATEST TAFB NWPS FOR WAVE PARAMETERS. LOW CONFIDENCE.

THE FORECAST FOR THE SW ATLC IS DEPENDENT UPON THE DEVELOPMENT AND MOVEMENT OF T.S. JOAQUIN...NOW CENTERED ABOUT 250 NM NE OF THE CENTRAL BAHAMAS. THE STORM IS FORECAST TO CONTINUE SLOWLY WEST THROUGH THE NEXT 24 HOURS THEN TURN NORTH. LONG PERIOD NE TO E SWELL IS ALSO IN PLACE OVER MUCH OF THE REGION N OF 25N...THE RESULT OF A LONG FETCH OF EASTERLY WINDS ALONG A FRONTAL BOUNDARY OVER THE CENTRAL ATLC. THERE IS CONSIDERABLE UNCERTAINTY AMONG MAJOR MODELS WITH THE DETAILS OF TRACK...INTENSITY AND TIMING NOT ONLY OF JOAQUIN BUT ALSO THE SURROUNDING ENVIRONMENT. WITH THE CURRENT MOVEMENTS MARINE INTERESTS ALONG THE ATLC EXPOSURES OF THE CENTRAL AND NORTHERN BAHAMAS SHOULD BE AWARE OF HIGHER SEAS ON THE PERIPHERY OF JOAQUIN THROUGH THE NEXT 3-4 DAYS BEFORE THE STORMS MOVES SUFFICIENTLY NORTH OF THE AREA. AS THE STORM AND ITS EFFECTS SHIFT NORTH OF THE AREA THIS WEEKEND...EXPECT GENTLE TO MODERATE SW TO W WINDS ACROSS THE REGION.

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.WARNINGS...ANY CHANGES IMPACTING COASTAL NWS OFFICES WILL BE COORDINATED THROUGH AWIPS 12 PLANET CHAT OR BY TELEPHONE:

.GULF OF MEXICO...
NONE.

.CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND 64W...
NONE.

.SW N ATLANTIC INCLUDING THE BAHAMAS...
.AMZ113...ATLANTIC FROM 27N TO 31N BETWEEN 70W AND 77W...
TROPICAL STORM WARNING TONIGHT.
.AMZ119...ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W...
TROPICAL STORM WARNING TODAY INTO THU.

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*FOR DETAILED ZONE DESCRIPTIONS PLEASE VISIT:
[HTTP://WWW.NHC.NOAA.GOV/ABOUTTAFBPROD.SHTML#OWF](http://www.nhc.noaa.gov/abouttafbprod.shtml#owf)

NOTE: GRIDDED MARINE FORECASTS ARE AVAILABLE IN THE NATIONAL DIGITAL FORECAST DATABASE (NDFD) AT:
[HTTP://WWW.NHC.NOAA.GOV/MARINE/GRIDS.PHP](http://www.nhc.noaa.gov/marine/grids.php)

FOR ADDITIONAL INFORMATION PLEASE VISIT:
[HTTP://WWW.HURRICANE WARNINGS.GOV/MARINE](http://www.hurricanewarnings.gov/marine)

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.FORECASTER CHRISTENSEN. NATIONAL HURRICANE CENTER.

WTNT31 KNHC 292051
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 8
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
500 PM EDT TUE SEP 29 2015

...JOAQUIN CONTINUES TO STRENGTHEN...

SUMMARY OF 500 PM EDT...2100 UTC...INFORMATION

LOCATION...26.0N 71.0W
ABOUT 405 MI...650 KM E OF THE NORTHWESTERN BAHAMAS
MAXIMUM SUSTAINED WINDS...65 MPH...100 KM/H
PRESENT MOVEMENT...WSW OR 240 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...990 MB...29.24 INCHES

WATCHES AND WARNINGS

There are no coastal watches or warnings in effect.

Interests in the Bahamas should monitor the progress of Joaquin.
Watches or warnings may be issued for portions of the Bahamas later
this evening.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 PM EDT (2100 UTC), the center of Tropical Storm Joaquin was
located near latitude 26.0 North, longitude 71.0 West. Joaquin is
moving toward the west-southwest near 5 mph (7 km/h) and this
general motion is expected to continue for the next couple of days.

Reports from an Air Force Hurricane Hunter aircraft indicate that
the maximum sustained winds have increased to near 65 mph (100 km/h)
with higher gusts. Additional strengthening is forecast during
the next 48 hours, and Joaquin could become a hurricane on
Wednesday.

Tropical storm force winds extend outward up to 90 miles (150 km)
from the center.

The Hurricane Hunter plane reported a minimum central pressure of 990 mb (29.24 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions could reach portions of the Central Bahamas by Thursday morning.

NEXT ADVISORY

Next complete advisory at 1100 PM EDT.

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Forecaster Pasch

WTNT21 KNHC 292051
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 8
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
2100 UTC TUE SEP 29 2015

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

INTERESTS IN THE BAHAMAS SHOULD MONITOR THE PROGRESS OF JOAQUIN.
WATCHES OR WARNINGS MAY BE ISSUED FOR PORTIONS OF THE BAHAMAS
LATER
THIS EVENING.

TROPICAL STORM CENTER LOCATED NEAR 26.0N 71.0W AT 29/2100Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE WEST-SOUTHWEST OR 240 DEGREES AT 4
KT

ESTIMATED MINIMUM CENTRAL PRESSURE 990 MB
MAX SUSTAINED WINDS 55 KT WITH GUSTS TO 65 KT.
50 KT..... 30NE 50SE 0SW 0NW.
34 KT..... 60NE 80SE 0SW 0NW.
12 FT SEAS..120NE 90SE 60SW 90NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 26.0N 71.0W AT 29/2100Z
AT 29/1800Z CENTER WAS LOCATED NEAR 26.0N 70.8W

FORECAST VALID 30/0600Z 25.8N 71.6W
MAX WIND 60 KT...GUSTS 75 KT.
50 KT... 30NE 50SE 0SW 0NW.
34 KT... 60NE 80SE 40SW 0NW.

FORECAST VALID 30/1800Z 25.5N 72.5W
MAX WIND 65 KT...GUSTS 80 KT.
64 KT... 20NE 20SE 0SW 0NW.
50 KT... 30NE 50SE 0SW 0NW.
34 KT... 60NE 80SE 40SW 30NW.

FORECAST VALID 01/0600Z 25.1N 73.3W
MAX WIND 70 KT...GUSTS 85 KT.
64 KT... 20NE 20SE 0SW 0NW.

50 KT... 30NE 50SE 0SW 0NW.
34 KT... 60NE 80SE 40SW 30NW.

FORECAST VALID 01/1800Z 24.8N 73.9W
MAX WIND 75 KT...GUSTS 90 KT.
50 KT... 30NE 50SE 0SW 0NW.
34 KT... 60NE 80SE 60SW 60NW.

FORECAST VALID 02/1800Z 25.0N 74.0W
MAX WIND 80 KT...GUSTS 100 KT.
50 KT... 40NE 40SE 30SW 40NW.
34 KT... 90NE 90SE 80SW 90NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 03/1800Z 29.0N 73.0W
MAX WIND 80 KT...GUSTS 100 KT.

OUTLOOK VALID 04/1800Z 34.0N 71.0W
MAX WIND 75 KT...GUSTS 90 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 26.0N 71.0W

NEXT ADVISORY AT 30/0300Z

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FORECASTER PASCH

FKNT21 KNHC 292052
TCANT1

TROPICAL STORM JOAQUIN ICAO ADVISORY NUMBER 8
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
2100 UTC TUE SEP 29 2015

TC ADVISORY

DTG: 20150929/2100Z
TCAC: KNHC
TC: JOAQUIN
NR: 008
PSN: N2600 W07100
MOV: WSW 04KT
C: 0990HPA
MAX WIND: 055KT
FCST PSN + 06 HR: 300300 N2552 W07124
FCST MAX WIND + 06 HR: 060KT
FCST PSN + 12 HR: 300900 N2543 W07149
FCST MAX WIND + 12 HR: 060KT
FCST PSN + 18 HR: 301500 N2534 W07216
FCST MAX WIND + 18 HR: 065KT
FCST PSN + 24 HR: 302100 N2524 W07242
FCST MAX WIND + 24 HR: 065KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150930/0300Z

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WTNT41 KNHC 292052
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 8
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
ISSUED BY THE NWS WEATHER PREDICTION CENTER COLLEGE PARK MD
500 PM EDT TUE SEP 29 2015

The cloud pattern of the storm has become better organized during the day, with the low level center now embedded inside the northern edge of the main area of deep convection. Animation of cirrus motions suggest that upper-level outflow is becoming a little more prominent over the northern portion of the circulation, and this is consistent with decreasing northerly shear. Flight-level, dropsonde, and SFMR wind observations from an Air Force reconnaissance aircraft indicate that Joaquin has strengthened and the intensity is now estimated to be 55 kt. With a more favorable upper-level wind environment now expected to prevail, the official forecast calls for more strengthening than the previous advisories. Joaquin is expected to become a hurricane within 24 hours, with additional intensification likely thereafter. The NHC intensity forecast is similar to the latest SHIPS model output.

Fixes from the aircraft show a southward component of motion and the initial motion estimate is now 240/4 kt. Joaquin is currently south of the southwestern periphery of a weak mid-level ridge. The ECMWF model shows this ridging to the north of the tropical cyclone to be more prominent over the next few days than the other dynamical models. Consequently, the ECMWF takes Joaquin more to the west and southwest through 72 hours than any of the other available guidance. Later in the forecast period, there is a significant divergence in the track guidance. The HWRF and U.K. Met Office models forecast Joaquin to move over the east coast of the United States later in the period whereas the ECMWF and GFS keep the system well offshore. The official forecast lies between these possibilities and is similar to the latest Florida State University Superensemble solution.

Interests in the Bahamas should monitor the progress of this storm. Watches or warnings may be issued for portions of these islands later this evening.

FORECAST POSITIONS AND MAX WINDS

INIT 29/2100Z 26.0N 71.0W 55 KT 65 MPH
12H 30/0600Z 25.8N 71.6W 60 KT 70 MPH

24H 30/1800Z 25.5N 72.5W 65 KT 75 MPH
36H 01/0600Z 25.1N 73.3W 70 KT 80 MPH
48H 01/1800Z 24.8N 73.9W 75 KT 85 MPH
72H 02/1800Z 25.0N 74.0W 80 KT 90 MPH
96H 03/1800Z 29.0N 73.0W 80 KT 90 MPH
120H 04/1800Z 34.0N 71.0W 75 KT 85 MPH

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Forecaster Pasch

FZNT23 KNHC 292118
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
518 PM EDT TUE SEP 29 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-300930-
BAHAMAS INCLUDING CAY SAL BANK-
518 PM EDT TUE SEP 29 2015

.TONIGHT...NW WINDS 15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE.
.WED...W TO NW WINDS 15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. W TO NW WINDS
15 TO 20 KT. SEAS 9 TO 10 FT ATLC EXPOSURES...AND 5 FT
ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.THU...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES... W TO NW
WINDS 20 TO 25 KT...INCREASING TO 30 TO 35 KT IN THE AFTERNOON.
ELSEWHERE...W TO NW WINDS 15 TO 20 KT. SEAS 10 TO 11 FT ATLC
EXPOSURES...AND 5 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED
TSTMS.
.THU NIGHT...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES...W
TO NW WINDS 40 TO 45 KT. SEAS 11 TO 12 FT. ELSEWHERE...W TO NW
WINDS 15 TO 20 KT. SEAS 5 FT. SCATTERED SHOWERS AND ISOLATED
TSTMS.
.FRI...HURRICANE CONDITIONS POSSIBLE.
.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.
.SAT...W WINDS 15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES...AND 4 FT
ELSEWHERE.
.SAT NIGHT...W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT
LATE. SEAS 7 FT ATLC EXPOSURES... AND 3 TO 4 FT
ELSEWHERE.
.SUN...W WINDS 10 TO 15 KT. SEAS 6 FT ATLC EXPOSURES...AND 3 FT
ELSEWHERE.

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AMZ119-300930-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
518 PM EDT TUE SEP 29 2015

...HURRICANE WARNING...

.TONIGHT...TROPICAL STORM CONDITIONS. N OF 25N...NW WINDS 45 TO 55 KT. SEAS 14 FT. ELSEWHERE...SW TO W WINDS 15 TO 20 KT. SEAS 8 TO 9 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...W TO NW WINDS 55 TO 65 KT. ELSEWHERE...SW TO W WINDS 20 TO 25 KT... INCREASING TO 30 TO 35 KT IN THE AFTERNOON. SEAS 14 TO 16 FT N OF 25N...AND 10 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED NIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N... W WINDS 55 TO 65 KT...SHIFTING TO S TO SW 60 TO 70 KT LATE. ELSEWHERE...SW WINDS 45 TO 50 KT...INCREASING TO 55 TO 65 KT LATE. SEAS 17 TO 18 FT N OF 25N...AND 11 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS. VSBY 1 NM OR LESS.

.THU...HURRICANE CONDITIONS EXPECTED. S TO SW WINDS 60 TO 70 KT. SEAS 19 TO 20 FT N OF 25N...AND 11 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS. VSBY 1 NM OR LESS.

.THU NIGHT...HURRICANE CONDITIONS POSSIBLE. S TO SW WINDS 60 TO 75 KT. SEAS 20 TO 21 FT N OF 25N... AND 12 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS. VSBY 1 NM OR LESS.

.FRI...HURRICANE CONDITIONS POSSIBLE.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE.

.SAT...HURRICANE CONDITIONS POSSIBLE.

.SAT NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.

.SUN...SW TO W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT IN THE AFTERNOON. SEAS 6 FT.

FZNT02 KNHC 292135
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
2230 UTC TUE SEP 29 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1800 UTC TUE SEP 29.
24 HOUR FORECAST VALID 1800 UTC WED SEP 30.
48 HOUR FORECAST VALID 1800 UTC THU OCT 01.

.WARNINGS.

...HURRICANE WARNING...

.TROPICAL STORM JOAQUIN NEAR 26.0N 71.0W 990 MB AT 2100 UTC SEP 29 MOVING WSW OR 240 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM NE QUADRANT AND 80 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM NW AND SE QUADRANTS...120 NM NE QUADRANT AND 60 NM SW QUADRANT WITH SEAS TO 21 FT. ELSEWHERE WITHIN 180 NM NE AND 90 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 25N BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.5N 72.5W. MAXIMUM SUSTAINED WINDS 65 KT GUSTS 80 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM NE QUADRANT...80 NM SE QUADRANT...40 NM SW QUADRANT...AND 30 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 120 NM NE AND 60 NM SW SEMICIRCLES WITH SEAS TO 24 FT. ELSEWHERE WITHIN 210 NM NE AND 120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 24N BETWEEN 65W AND 77W AND OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.8N 73.9W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM OF CENTER EXCEPT 80 NM SE QUADRANT. SEAS 12 FT OR

GREATER WITHIN 120 NM OF CENTER WITH SEAS TO 28 FT. ELSEWHERE WITHIN 240 NM NE AND 150 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 65W AND 77W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.0N 74.0W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.

EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 29.0N 73.0W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.

.120 HOUR FORECAST HURRICANE JOAQUIN NEAR 34.0N 71.0W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC STATIONARY FRONT FROM 26N35W TO 24N45W TO 26N50W TO 28N60W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 13 FT. N OF 27N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN NE SWELL. ELSEWHERE WITHIN 180 NM N SEMICIRCLE OF LOW PRES 1009 MB NEAR 24N57W WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. REMAINDER OF AREA N OF A LINE FROM 26N35W TO 23N40W TO 24N50W TO 23N60W TO 27N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.

.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO 24N50W THEN TROUGH TO LOW PRES 1010 MB NEAR 25N60W TO 28N65W. N OF FRONT AND TROUGH E OF 65W NE TO E WINDS 20 TO 25 KT...EXCEPT E TO SE WINDS W OF 50W. SEAS 8 TO 11 FT.

.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 27N35W TO 25N40W THEN TROUGH TO LOW PRES 1010 MB NEAR 26N57W TO 28N65W. N OF 26N BETWEEN 52W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 10 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER GR. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 292203

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

2230 UTC TUE SEP 29 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 1800 UTC SEP 29

24 HOUR FORECAST VALID 1800 UTC SEP 30

48 HOUR FORECAST VALID 1800 UTC OCT 01

.WARNINGS.

...GALE WARNING...

.24 HOUR FORECAST NEW LOW 43N70W 1007 MB. WITHIN 120 NM E AND SE QUADRANTS WINDS 25 TO 35 KT. SEAS TO 11 FT. ELSEWHERE WITHIN 480 NM S AND SE QUADRANTS WINDS TO 25 KT. SEAS TO 10 FT.

.48 HOUR FORECAST LOW 49N58W 1011 MB. OVER FORECAST WATERS W OF A LINE FROM THE LOW TO 44N65W TO 38N73W...AND WITHIN 120 NM N OF ANOTHER LINE FROM 51N55W TO 52N51W WINDS 25 TO 35 KT. SEAS 8 TO 14 FT. ELSEWHERE WITHIN 180 NM E OF A LINE FROM THE LOW TO 39N70W WINDS TO 25 KT. SEAS TO 10 FT.

...GALE WARNING...

.24 HOUR FORECAST OVER FORECAST WATERS FROM 54N TO 62N E OF 38W AREA OF SW WINDS TO 25 KT. SEAS TO 10 FT.

.36 HOUR FORECAST FROM 59N TO 61N BETWEEN 39W AND 43W W WINDS 25 TO 35 KT. SEAS TO 10 FT.

.48 HOUR FORECAST FROM 59N TO 61N E OF 44W W WINDS 25 TO 35 KT. SEAS TO 12 FT. ELSEWHERE N OF 62N E OF GREENLAND WINDS TO 25 KT. SEAS TO 9 FT.

.SYNOPSIS AND FORECAST.

.LOW 64N35W 1001 MB MOVING NE 25 KT. WITHIN 360 NM SW AND 180 NM NW QUADRANTS WINDS TO 25 KT. SEAS TO 12 FT...HIGHEST SW QUADRANT.

.24 HOUR FORECAST LOW AND CONDITIONS WELL NE OF AREA.

.FROM 31N TO 37N BETWEEN 48W AND 72W AREA OF E TO SE WINDS 20 TO 30 KT. SEAS TO 11 FT.

.24 HOUR FORECAST FROM 31N TO 36N BETWEEN 52W AND 70W E TO SE WINDS TO 25 KT. SEAS TO 11 FT.

.48 HOUR FORECAST FROM 31N TO 39N BETWEEN 60W AND 71W E TO SE WINDS TO 25 KT. SEAS TO 10 FT.

.OVER FORECAST WATERS FROM 44N TO 53N BETWEEN 52W AND 65W AREA OF W TO SW WINDS TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST NEW LOW 54N49W 1016 MB. WITHIN 240 NM SE

SEMICIRCLE WINDS TO 25 KT. SEAS LESS THAN 8 FT.

.48 HOUR FORECAST LOW DISSIPATED. CONDITIONS DIMINISHED.

.24 HOUR FORECAST LOW E OF AREA 39N31W 1000 MB. OVER FORECAST WATERS FROM 37N TO 45N E OF 40W WINDS 20 TO 30 KT. SEAS 8 TO 13 FT.

.48 HOUR FORECAST LOW E OF AREA 38N30W 1000 MB. FROM 39N TO 44N E OF 40W WINDS TO 25 KT. SEAS TO 12 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS FROM 52N TO 56N E OF 39W AND WITHIN 120 NM E OF A LINE FROM 55N55W TO 46N51W.

.24 HOUR FORECAST DENSE FOG WITHIN 360 NM SE OF A LINE FROM 52N54W TO 60N35W AND WITHIN 60 NM OF 43N68W.

.48 HOUR FORECAST DENSE FOG FROM 46N TO 52N BETWEEN 45W AND 52W.

.HIGH 39N54W 1029 MB MOVING N 10 KT.

.24 HOUR FORECAST HIGH 43N53W 1027 MB.

.48 HOUR FORECAST HIGH 45N51W 1025 MB.

.FORECASTER REINHART. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

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.FORECASTER GR. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 292351
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 PM EDT TUE SEP 29 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 1800 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 2315 UTC.

...SPECIAL FEATURES...

TROPICAL STORM JOAQUIN IS CENTERED NEAR 26.0N 71.0W AT 29/2100 UTC OR ABOUT 350 NM E OF THE NORTHWESTERN BAHAMAS MOVING WSW AT 4 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 990 MB. MAXIMUM SUSTAINED WIND SPEED IS 55 KT WITH GUSTS TO 65 KT. NUMEROUS MODERATE AND SCATTERED STRONG CONVECTION IS FROM 23N-27N BETWEEN 68W-72W WITH SCATTERED MODERATE CONVECTION ELSEWHERE FROM 21N-27N BETWEEN 67W-73W. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...TROPICAL WAVES...

TROPICAL WAVE EXTENDS FROM 11N22W TO 16N19W MOVING W AT 5 KT. THE WAVE COINCIDES WITH 700 MB TROUGHING ALOFT BETWEEN 18W-23W AS WELL AS A 850 MB RELATIVE VORTICITY MAXIMUM CENTERED ALONG THE WAVE AXIS NEAR 14N21W. IN ADDITION...A SURFACE 1008 MB LOW IS CENTERED AT THE SOUTHERN EXTENT OF THE WAVE AXIS ALONG THE MONSOON TROUGH NEAR 12N19W. SCATTERED MODERATE AND ISOLATED STRONG CONVECTION IS WITHIN 120 NM EITHER SIDE OF A LINE FROM 09N11W TO 16N18W...WITH ISOLATED MODERATE CONVECTION ELSEWHERE FROM 09N-13N BETWEEN 20W-26W.

TROPICAL WAVE EXTENDS FROM 11N39W TO 15N36W MOVING W AT 5-10 KT. THE WAVE COINCIDES WITH A BROAD 700 MB TROUGH AND STRETCHED 850 RELATIVE VORTICITY ALONG THE MONSOON TROUGH AXIS BETWEEN 33W-41W. LOW-LEVEL STREAMLINE ANALYSIS ALSO INDICATES A 1009 MB LOW CENTERED AT THE SOUTHERN EXTENT OF THE WAVE AXIS AS THE FOCUS OF A BROAD MONSOONAL GYRE. ISOLATED MODERATE CONVECTION IS FROM 09N-11N BETWEEN 39W-43W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM 11N21W TO 11N39W TO 09N43W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N43W TO 08N51W. NO SIGNIFICANT DEEP CONVECTION IS OCCURRING OUTSIDE OF THE INFLUENCE OF THE TROPICAL WAVES LISTED ABOVE ALONG 20W AND 38W.

...DISCUSSION...

GULF OF MEXICO...

SOUTHWESTERLY FLOW ALOFT IS NOTED OVER THE GULF THIS EVENING BETWEEN A MIDDLE TO UPPER LEVEL TROUGH AXIS EXTENDING FROM OVER THE MID-MISSISSIPPI RIVER VALLEY SW TO A BASE OVER DEEP SOUTHERN TEXAS AND AN ELONGATED MIDDLE TO UPPER LEVEL RIDGE ANCHORED OVER THE SW NORTH ATLANTIC AND SOUTHERN FLORIDA PENINSULA NEAR 26N80W. AT THE SURFACE...THE TROUGHING SUPPORTS A FAIRLY BROAD AREA OF LOWER PRESSURE VALUES ACROSS THE BASIN FOCUSED ON A 1008 MB LOW CENTERED NEAR 28N94W IN THE NW GULF WATERS...AND A 1008 MB LOW CENTERED ACROSS THE FLORIDA PANHANDLE NEAR 31N85W. MOISTURE IN ALL LEVELS REMAINS PLENTIFUL EAST OF THE TROUGH AXIS WITH ISOLATED SHOWERS AND TSTMS OCCURRING ACROSS THE NORTHWESTERN TWO-

THIRDS OF THE GULF...WITH SCATTERED SHOWERS AND TSTMS OCCURRING GENERALLY EAST OF A LINE FROM THE FLORIDA BIG BEND REGION SW TO THE YUCATAN PENINSULA...INCLUDING MUCH OF THE FLORIDA PENINSULA AS WELL. THIS AREA OF ENHANCED CONVECTION CONTINUES WITHIN MAXIMUM MIDDLE TO UPPER LEVEL DIFFLUENCE. LOOKING AHEAD...A COLD FRONT IS FORECAST TO FORM AND MOVE ACROSS THE WESTERN GULF LATE THURSDAY INTO FRIDAY INTRODUCING MODERATE TO FRESH NORTH-NORTHEASTERLY WINDS THROUGH SATURDAY.

CARIBBEAN SEA...

NORTHEASTERLY FLOW PREVAILS OVER MUCH OF THE CENTRAL AND WESTERN CARIBBEAN THAT IS PROVIDING OVERALL STABLE CONDITIONS AND FAIR WEATHER THIS EVENING. HOWEVER...ONE EXCEPTION LIES ACROSS THE NW CARIBBEAN WHERE MIDDLE TO UPPER LEVEL DIFFLUENCE IS MAXIMIZED PRODUCING ISOLATED SHOWERS AND TSTMS N OF 19N W OF 84W. ANOTHER AREA OF ONGOING CONVECTION IS OCCURRING ACROSS INLAND PORTIONS OF NORTHERN COLOMBIA...PANAMA...AND COSTA RICA IN ASSOCIATION WITH THE CLOSE PROXIMITY TO THE MONSOON TROUGH ANALYZED ALONG 09N. OTHERWISE...MOSTLY CLEAR SKIES PREVAIL S OF 20N E OF 84W WITH THE EXCEPTION OF A FEW ISOLATED SHOWERS AND TSTMS ACROSS HISPANIOLA. WATER VAPOR IMAGERY INDICATES RELATIVELY STRONG DRY AIR ALOFT IN ASSOCIATION WITH A BROAD AND ELONGATED UPPER LEVEL LOW CENTERED NEAR 18N61W STRETCHING TO ANOTHER UPPER LEVEL LOW NEAR 11N70W. OTHERWISE...MAINLY MODERATE TO FRESH TRADES PERSIST

WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

CURRENTLY LINGERING LATE AFTERNOON AND EARLY EVENING ISOLATED SHOWERS CONTINUE TO GRADUALLY DIMINISH WITH MOSTLY FAIR SKIES EXPECTED FOR THE OVERNIGHT HOURS INTO EARLY MONDAY. NE FLOW ALOFT PREVAILS OVER THE ISLAND.

ATLANTIC OCEAN...

TROPICAL STORM JOAQUIN CONTINUES TO GARNER THE MOST ATTENTION IN THE SW NORTH ATLANTIC WATERS THIS EVENING EXPECTED TO TRACK TOWARD THE CENTRAL AND NW BAHAMAS BY THURSDAY BEFORE ABRUPTLY TURNING NORTH-NORTHEASTWARD DURING THE UPCOMING WEEKEND. AN UPPER LEVEL RIDGE REMAINS ANCHORED TO THE WEST OF THE INFLUENCE OF JOAQUIN ANCHORED NEAR 25N79W PROVIDING AN FAIRLY DIFFLUENT ENVIRONMENT SUPPORTING SCATTERED SHOWERS AND TSTMS THIS EVENING STRETCHING FROM NEAR 32N79W S-SW ACROSS THE WATERS W OF 78W AND PORTIONS OF THE CENTRAL AND SOUTHERN FLORIDA PENINSULA. FARTHER EAST...WATER VAPOR IMAGERY INDICATES A LARGE AND BROAD UPPER LEVEL LOW CENTERED NEAR 39N28W THAT SUPPORTS A COLD FRONT EXTENDING INTO THE DISCUSSION AREA NEAR 32N24W EXTENDING SW TO 28N33W. THE FRONT CONTINUES STATIONARY INTO A WEAK 1013 MB LOW NEAR 26N37W THEN TO 24N43W TO 29N59W. SCATTERED SHOWERS AND ISOLATED TSTMS ARE LARGELY OCCURRING NORTH OF THE FRONT BETWEEN 39W-64W. NEAR THE WESTERN EXTENT OF THE FRONT...A 1009 MB LOW IS ANALYZED TO THE SOUTH NEAR 24N58W. NUMEROUS SHOWERS AND SCATTERED TSTMS ARE OCCURRING WITHIN THE NORTHERN SEMICIRCLE OF THE LOW FROM 23N-27N BETWEEN 53W-62W. MUCH OF THE CONVECTION IS LIKELY ENHANCED DUE TO AN UPPER LEVEL RIDGE AXIS EXTENDING FROM 28N65W TO 24N50W.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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HUFFMAN

WTNT21 KNHC 300253
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 9
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC WED SEP 30 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS AS ISSUED A HURRICANE WATCH FOR THE
CENTRAL BAHAMAS.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WATCH IS IN EFFECT FOR...
* CENTRAL BAHAMAS

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE
WITHIN THE WATCH AREA...IN THIS CASE WITHIN THE NEXT 36 TO 48
HOURS.

INTERESTS IN THE NORTHWEST BAHAMAS SHOULD MONITOR THE PROGRESS OF
JOAQUIN. ADDITIONAL WATCHES OR WARNINGS MAY BE REQUIRED EARLY
WEDNESDAY.

TROPICAL STORM CENTER LOCATED NEAR 25.8N 71.7W AT 30/0300Z
POSITION ACCURATE WITHIN 25 NM

PRESENT MOVEMENT TOWARD THE WEST-SOUTHWEST OR 240 DEGREES AT 4
KT

ESTIMATED MINIMUM CENTRAL PRESSURE 988 MB
MAX SUSTAINED WINDS 60 KT WITH GUSTS TO 75 KT.
50 KT..... 40NE 50SE 0SW 0NW.
34 KT..... 80NE 110SE 30SW 30NW.
12 FT SEAS..120NE 90SE 60SW 90NW.

WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 25.8N 71.7W AT 30/0300Z
AT 30/0000Z CENTER WAS LOCATED NEAR 25.8N 71.5W

FORECAST VALID 30/1200Z 25.5N 72.4W
MAX WIND 70 KT...GUSTS 85 KT.
64 KT... 20NE 20SE 0SW 0NW.
50 KT... 40NE 50SE 0SW 20NW.

34 KT... 80NE 100SE 40SW 40NW.

FORECAST VALID 01/0000Z 25.2N 73.3W
MAX WIND 75 KT...GUSTS 90 KT.
64 KT... 20NE 20SE 0SW 20NW.
50 KT... 40NE 50SE 20SW 30NW.
34 KT... 80NE 100SE 50SW 50NW.

FORECAST VALID 01/1200Z 24.8N 74.1W
MAX WIND 80 KT...GUSTS 100 KT.
64 KT... 20NE 20SE 0SW 20NW.
50 KT... 40NE 50SE 20SW 30NW.
34 KT... 80NE 100SE 50SW 50NW.

FORECAST VALID 02/0000Z 24.9N 74.5W
MAX WIND 85 KT...GUSTS 105 KT.
50 KT... 40NE 50SE 20SW 30NW.
34 KT... 80NE 100SE 50SW 60NW.

FORECAST VALID 03/0000Z 26.7N 74.0W
MAX WIND 90 KT...GUSTS 110 KT.
50 KT... 50NE 50SE 30SW 40NW.
34 KT...100NE 100SE 60SW 90NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 04/0000Z 31.3N 72.5W
MAX WIND 85 KT...GUSTS 105 KT.

OUTLOOK VALID 05/0000Z 35.5N 72.0W
MAX WIND 80 KT...GUSTS 100 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 25.8N 71.7W

NEXT ADVISORY AT 30/0900Z

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FORECASTER BROWN

WTNT31 KNHC 300254
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 9
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM EDT TUE SEP 29 2015

...JOAQUIN EXPECTED TO BECOME A HURRICANE LATER TONIGHT OR
WEDNESDAY...

...HURRICANE WATCH ISSUED FOR THE CENTRAL BAHAMAS...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

LOCATION...25.8N 71.7W
ABOUT 360 MI...580 KM E OF THE NORTHWESTERN BAHAMAS
MAXIMUM SUSTAINED WINDS...70 MPH...110 KM/H
PRESENT MOVEMENT...WSW OR 240 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...988 MB...29.18 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The government of the Bahamas as issued a Hurricane Watch for the
Central Bahamas.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Watch is in effect for...
* Central Bahamas

A Hurricane Watch means that hurricane conditions are possible
within the watch area, in this case within the next 36 to 48
hours.

Interests in the Northwest Bahamas should monitor the progress of
Joaquin. Additional watches or warnings may be required early
Wednesday.

For storm information specific to your area, please monitor
products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Tropical Storm Joaquin was located near latitude 25.8 North, longitude 71.7 West. Joaquin is moving toward the west-southwest near 5 mph (7 km/h) and this general motion is expected to continue for the next couple of days. On the forecast track, the center of Joaquin is expected to move near or over portions of the central Bahamas Wednesday night or Thursday.

Maximum sustained winds have increased to near 70 mph (110 km/h) with higher gusts. Additional strengthening is expected during the next 48 hours, and Joaquin is forecast to become a hurricane later tonight or Wednesday.

Tropical-storm-force winds extend outward up to 125 miles (205 km), mainly to the east of the center.

The estimated minimum central pressure is 988 mb (29.18 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions could reach portions of the Central Bahamas by Wednesday night, with hurricane conditions possible by late Wednesday night or early Thursday.

RAINFALL: Joaquin is expected to produce 4 to 8 inches of rain with isolated maximum amounts of 12 inches possible over San Salvador and Rum Cay through Thursday morning. Rainfall amounts of 3 to 5 inches are possible over the remainder of the Central Bahamas through Thursday morning, with 1 to 2 inches expected over the Northwest and Southeast Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 200 AM EDT.
Next complete advisory at 500 AM EDT.

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Forecaster Brown

FKNT21 KNHC 300254
TCANT1

TROPICAL STORM JOAQUIN ICAO ADVISORY NUMBER 9
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC WED SEP 30 2015

TC ADVISORY

DTG: 20150930/0300Z
TCAC: KNHC
TC: JOAQUIN
NR: 009
PSN: N2548 W07142
MOV: WSW 04KT
C: 0988HPA
MAX WIND: 060KT
FCST PSN + 06 HR: 300900 N2536 W07210
FCST MAX WIND + 06 HR: 065KT
FCST PSN + 12 HR: 301500 N2525 W07237
FCST MAX WIND + 12 HR: 070KT
FCST PSN + 18 HR: 302100 N2516 W07304
FCST MAX WIND + 18 HR: 075KT
FCST PSN + 24 HR: 010300 N2506 W07330
FCST MAX WIND + 24 HR: 075KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150930/0900Z

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WTNT41 KNHC 300254
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 9
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM EDT TUE SEP 29 2015

The cloud pattern of Joaquin has continued to become better organized this evening. The low-level center is located within the northwestern portion of the deep convection and the outflow has continued to expand over the northern semicircle, which suggests that the shear continues to decrease. The latest satellite intensity estimates from TAFB and SAB are T3.5 or 55 kt on the Dvorak scale. Based on the earlier reconnaissance aircraft data and the continued increase in organization this evening, the initial wind speed has been raised to 60 kt. Joaquin is forecast to be over warm water and in an increasingly favorable upper-level wind pattern during the next day or so. These conditions favor intensification and the NHC forecast calls for Joaquin to become a hurricane within the next 12 hours. The upper-level winds are shown by the global models to become quite conducive for strengthening by 36 hours as an upper-level anticyclone builds over the system, and additional strengthening is anticipated. The new NHC forecast is a bit higher than the previous advisory, and is close to the IVCN intensity consensus aid. It should be noted, that the UKMET, GFS, and ECMWF models all significantly deepen Joaquin during the next few days, and the NHC forecast could be somewhat conservative.

Joaquin is moving west-southwestward at about 5 kt. This general motion is forecast to continue during the next 24-36 hours while the cyclone remains to the southwest of a weak mid-level ridge. During this time, the center of Joaquin is forecast to move near or over portions of the Central Bahamas. After 48 hours, a deepening mid-to upper-level trough over the southeastern United States is expected to cause a turn toward the north or north-northeast with an increase in forward speed. There remains large spread in the guidance at days 4 and 5, with the ECMWF showing a northeastward motion toward Bermuda. Meanwhile, the 18Z GFS shifted significantly westward and is close to the UKMET and HWRF, which are along the western edge of the guidance envelope. The NHC track has been shifted westward, but it is not as far west as the multi-model consensus. The new track is fairly close to the ECMWF-Ensemble Mean.

The government of the Bahamas has issued a Hurricane Watch for the Central Bahamas. Additional watches or warnings may be required early Wednesday.

At this time it is very hard to gauge the long-range potential impacts of Joaquin in the United States. The environmental steering currents are complex and are not being handled in a consistent manner by the forecast models. A wide range of outcomes are possible and it is simply too soon to say what impacts, if any, Joaquin will have on the United States.

FORECAST POSITIONS AND MAX WINDS

INIT	30/0300Z	25.8N	71.7W	60 KT	70 MPH
12H	30/1200Z	25.5N	72.4W	70 KT	80 MPH
24H	01/0000Z	25.2N	73.3W	75 KT	85 MPH
36H	01/1200Z	24.8N	74.1W	80 KT	90 MPH
48H	02/0000Z	24.9N	74.5W	85 KT	100 MPH
72H	03/0000Z	26.7N	74.0W	90 KT	105 MPH
96H	04/0000Z	31.3N	72.5W	85 KT	100 MPH
120H	05/0000Z	35.5N	72.0W	80 KT	90 MPH

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Forecaster Brown

FZNT02 KNHC 300304
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
0430 UTC WED SEP 30 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0000 UTC WED SEP 30.
24 HOUR FORECAST VALID 0000 UTC THU OCT 01.
48 HOUR FORECAST VALID 0000 UTC FRI OCT 02.

.WARNINGS.

...HURRICANE WARNING...

.TROPICAL STORM JOAQUIN NEAR 25.8N 71.7W 988 MB AT 0300 UTC SEP 30 MOVING WSW OR 240 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT. TROPICAL STORM FORCE WINDS WITHIN 30 NM W SEMICIRCLE...80 NM NE QUADRANT AND 110 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM NW AND SE QUADRANTS...120 NM NE QUADRANT AND 60 NM SW QUADRANT WITH SEAS TO 24 FT. ELSEWHERE WITHIN 180 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 25N BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.2N 73.3W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 50 NM W SEMICIRCLE...80 NM NE QUADRANT AND 100 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 120 NM NE AND 60 NM SW SEMICIRCLES WITH SEAS TO 26 FT. ELSEWHERE WITHIN 210 NM NE AND 150 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 23N BETWEEN 65W AND 77W AND OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.9N 74.5W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT. TROPICAL STORM FORCE WINDS WITHIN 80 NM NE QUADRANT...100 NM SE QUADRANT...50 NM SW QUADRANT...AND 60 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN

150 NM NE AND 90 NM SW SEMICIRCLES WITH SEAS TO 28 FT. ELSEWHERE WITHIN 210 NM NE AND 150 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 65W AND 78W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 26.7N 74.0W. MAXIMUM SUSTAINED WINDS 90 KT GUSTS 110 KT.

EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 31.3N 72.5W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT.

.120 HOUR FORECAST HURRICANE JOAQUIN NEAR 35.5N 72.0W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC STATIONARY FRONT FROM 27N35W TO 24N45W TO 28N60W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 14 FT. N OF 28N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN E SWELL. ELSEWHERE N OF A LINE FROM 25N35W TO 22N45W TO 23N55W TO 22N60W TO 26N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.

.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO 25N50W THEN TROUGH TO 25N60W TO 29N65W. N OF TROUGH BETWEEN 50W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF FRONT AND TROUGH BETWEEN 48W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 27N35W TO 25N45W THEN TROUGH TO 26N55W TO 28N65W. N OF 26N BETWEEN 50W AND 60W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. N OF 27N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS TO 9 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER GR. NATIONAL HURRICANE CENTER.

FZNT23 KNHC 300312
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1112 PM EDT TUE SEP 29 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-301515-
BAHAMAS INCLUDING CAY SAL BANK-
1112 PM EDT TUE SEP 29 2015

...HURRICANE WARNING...

.OVERNIGHT...NW WINDS 15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES...
AND 4 FT ELSEWHERE.

.WED...W TO NW WINDS 15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.

.WED NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. W TO NW WINDS
15 TO 20 KT. SEAS 9 TO 10 FT ATLC EXPOSURES...AND 4 TO 5 FT
ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.

.THU...TROPICAL STORM CONDITIONS EXPECTED. ATLC EXPOSURES...W TO
NW WINDS 45 TO 60 KT. SEAS 10 TO 11 FT. ELSEWHERE...W TO NW
WINDS 15 TO 20 KT. SEAS 5 FT. SCATTERED SHOWERS AND ISOLATED
TSTMS.

.THU NIGHT...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES...W
TO NW WINDS 70 TO 80 KT. SEAS 15 TO 21 FT. ELSEWHERE...W TO NW
WINDS 15 TO 20 KT. SEAS 5 FT. SCATTERED SHOWERS AND ISOLATED
TSTMS.

.FRI...HURRICANE CONDITIONS POSSIBLE.

.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT...W WINDS 15 TO 20 KT. SEAS 8 FT ATLC EXPOSURES...AND 4 TO
5 FT ELSEWHERE.

.SAT NIGHT...W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT
LATE. SEAS 7 FT ATLC EXPOSURES... AND 4 FT ELSEWHERE.

.SUN...W WINDS 10 TO 15 KT. SEAS 7 FT ATLC EXPOSURES...AND 4 FT
ELSEWHERE.

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AMZ119-301515-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1112 PM EDT TUE SEP 29 2015

...HURRICANE WARNING...

.OVERNIGHT...TROPICAL STORM CONDITIONS. N OF 25N...NW WINDS
50 TO 55 KT. SEAS 14 FT. ELSEWHERE...SW TO W WINDS 20 TO
25 KT. SEAS 8 TO 9 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
.WED...HURRICANE CONDITIONS EXPECTED. N OF 25N...NW WINDS 60 TO
70 KT. ELSEWHERE...SW TO W WINDS 30 TO 35 KT...INCREASING TO
50 TO 55 KT IN THE AFTERNOON. SEAS 14 TO 16 FT N OF 25N...AND
10 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS. VSBY 1 NM
OR LESS.

.WED NIGHT...HURRICANE CONDITIONS EXPECTED. SW WINDS 60 TO
70 KT. SEAS 17 TO 18 FT N OF 25N...AND 11 FT ELSEWHERE.
SCATTERED SHOWERS AND ISOLATED TSTMS. VSBY 1 NM OR LESS.

.THU...HURRICANE CONDITIONS EXPECTED. S TO SW WINDS 65 TO 75 KT.
SEAS 19 TO 20 FT N OF 25N...AND 11 FT ELSEWHERE. SCATTERED
SHOWERS AND ISOLATED TSTMS. VSBY 1 NM OR LESS.

.THU NIGHT...HURRICANE CONDITIONS POSSIBLE. S WINDS 70 TO 80 KT.
SEAS 15 TO 21 FT N OF 25N...AND 12 FT ELSEWHERE. SCATTERED
SHOWERS AND ISOLATED TSTMS. VSBY 1 NM OR LESS.

.FRI...HURRICANE CONDITIONS POSSIBLE.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE.

.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.

.SUN...SW TO W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT IN
THE AFTERNOON. SEAS 7 FT.

FZNT01 KWBC 300402

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

0430 UTC WED SEP 30 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0000 UTC SEP 30

24 HOUR FORECAST VALID 0000 UTC OCT 01

48 HOUR FORECAST VALID 0000 UTC OCT 02

.WARNINGS.

...GALE WARNING...

.18 HOUR FORECAST LOW 43N70W 1006 MB. WITHIN 120 NM E SEMICIRCLE WINDS 25 TO 35 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW 44N67W 1009 MB. FROM 40N TO 46N W OF 61W WINDS 20 TO 30 KT. SEAS TO 11 FT. ELSEWHERE S OF 40N BETWEEN 60W AND 70W...ALSO S OF A LINE FROM 35N60W TO 31N53W WINDS TO 25 KT. SEAS TO 10 FT.

.48 HOUR FORECAST LOW 51N52W 1016 MB. WITHIN 180 NM NW SEMICIRCLE...ALSO FROM 48N TO 51N BETWEEN 57W AND 61W...AND W OF A LINE FROM 44N65W TO 40N70W TO 36N75W WINDS 25 TO 35 KT. SEAS 8 TO 14 FT.

...GALE WARNING...

.24 HOUR FORECAST OVER FORECAST WATERS E OF A LINE FROM 61N35W TO 57N40W TO 54N40W WINDS TO 25 KT. SEAS TO 10 FT.

.36 HOUR FORECAST FROM 59N TO 61N BETWEEN 38W AND 42W W WINDS 25 TO 35 KT. SEAS TO 11 FT.

.48 HOUR FORECAST CONDITIONS DIMINISHED.

.SYNOPSIS AND FORECAST.

.S OF A LINE FROM 40N71W TO 36N60W TO 31N48W WINDS 20 TO 30 KT. SEAS TO 11 FT.

.24 HOUR FORECAST CONDITIONS DESCRIBED WITH LOW 44N67W.

.OVER FORECAST WATERS FROM 46N TO 50N BETWEEN 57W AND 64W AREA OF W TO SW WINDS TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST CONDITIONS DIMINISHED.

.24 HOUR FORECAST LOW E OF AREA 38N31W 1000 MB. OVER FORECAST WATERS FROM 36N TO 45N E OF 40W WINDS 20 TO 30 KT. SEAS 8 TO 13 FT.

.48 HOUR FORECAST LOW E OF AREA 40N30W 1001 MB. FROM 39N TO 45N E OF 38W WINDS TO 25 KT. SEAS TO 12 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST

WATERS FROM 51N TO 56N E OF 45W AND WITHIN 180 NM E OF A LINE FROM 54N55W TO 45N50W.

.24 HOUR FORECAST DENSE FOG WITHIN 360 NM SE OF A LINE FROM 51N53W TO 60N35W.

.48 HOUR FORECAST DENSE FOG FROM 46N TO 53N BETWEEN 45W AND 53W.
.HIGH 39N52W 1029 MB MOVING N 10 KT.

.24 HOUR FORECAST HIGH 44N51W 1028 MB.

.48 HOUR FORECAST HIGH 44N52W 1025 MB.

.FORECASTER SHAW. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0000 UTC WED SEP 30.

24 HOUR FORECAST VALID 0000 UTC THU OCT 01.

48 HOUR FORECAST VALID 0000 UTC FRI OCT 02.

.WARNINGS.

...HURRICANE WARNING...

.TROPICAL STORM JOAQUIN NEAR 25.8N 71.7W 988 MB AT 0300 UTC SEP 30 MOVING WSW OR 240 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT. TROPICAL STORM FORCE WINDS WITHIN 30 NM W SEMICIRCLE...80 NM NE QUADRANT AND 110 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 90 NM NW AND SE QUADRANTS...120 NM NE QUADRANT AND 60 NM SW QUADRANT WITH SEAS TO 24 FT. ELSEWHERE WITHIN 180 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 25N BETWEEN 65W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.2N 73.3W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 50 NM W SEMICIRCLE...80 NM NE QUADRANT AND 100 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 120 NM NE AND 60 NM SW SEMICIRCLES WITH SEAS TO 26 FT. ELSEWHERE WITHIN 210 NM NE AND 150 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT.

REMAINDER OF AREA N OF 23N BETWEEN 65W AND 77W AND OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.9N 74.5W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT. TROPICAL STORM FORCE WINDS WITHIN 80 NM NE QUADRANT...100 NM SE QUADRANT...50 NM SW QUADRANT...AND 60 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 150 NM NE AND 90 NM SW SEMICIRCLES WITH SEAS TO 28 FT. ELSEWHERE WITHIN 210 NM NE AND 150 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 65W AND 78W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 26.7N 74.0W. MAXIMUM SUSTAINED WINDS 90 KT GUSTS 110 KT.

EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 31.3N 72.5W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT.

.120 HOUR FORECAST HURRICANE JOAQUIN NEAR 35.5N 72.0W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC STATIONARY FRONT FROM 27N35W TO 24N45W TO 28N60W. N OF FRONT NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 14 FT. N OF 28N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN E SWELL. ELSEWHERE N OF A LINE FROM 25N35W TO 22N45W TO 23N55W TO 22N60W TO 26N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.

.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO 25N50W THEN TROUGH TO 25N60W TO 29N65W. N OF TROUGH BETWEEN 50W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF FRONT AND TROUGH BETWEEN 48W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST DISSIPATING STATIONARY FRONT FROM 27N35W TO 25N45W THEN TROUGH TO 26N55W TO 28N65W. N OF 26N BETWEEN 50W AND 60W NE TO E WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. N OF 27N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS TO 9 FT.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER GR. NATIONAL HURRICANE CENTER.

WTNT31 KNHC 300535
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN INTERMEDIATE ADVISORY NUMBER 9A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
200 AM EDT WED SEP 30 2015

...JOAQUIN EXPECTED TO BECOME A HURRICANE SOON AS IT MOVES
WEST-SOUTHWESTWARD...

SUMMARY OF 200 AM EDT...0600 UTC...INFORMATION

LOCATION...25.5N 72.0W
ABOUT 340 MI...545 KM E OF THE NORTHWESTERN BAHAMAS
MAXIMUM SUSTAINED WINDS...70 MPH...110 KM/H
PRESENT MOVEMENT...WSW OR 240 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...988 MB...29.18 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Watch is in effect for...
* Central Bahamas

A Hurricane Watch means that hurricane conditions are possible
within the watch area, in this case within the next 36 to 48 hours.

Interests in the northwest Bahamas should monitor the progress of
Joaquin. Additional watches or warnings may be required later this
morning.

For storm information specific to your area, please monitor products
issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 200 AM EDT (0600 UTC), the center of Tropical Storm Joaquin was

located near latitude 25.5 North, longitude 72.0 West. Joaquin is moving toward the west-southwest near 5 mph (7 km/h) and this general motion is expected to continue for the next couple of days. On the forecast track, the center of Joaquin is expected to move near or over portions of the central Bahamas Wednesday night or Thursday.

Maximum sustained winds are near 70 mph (110 km/h) with higher gusts. Strengthening is expected during the next 48 hours, and Joaquin is forecast to become a hurricane later this morning.

Tropical storm force winds extend outward up to 125 miles (205 km), mainly to the east of the center.

The estimated minimum central pressure is 988 mb (29.18 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions could reach portions of the central Bahamas by Wednesday night, with hurricane conditions possible by late Wednesday night or early Thursday.

RAINFALL: Joaquin is expected to produce 4 to 8 inches of rain with isolated maximum amounts of 12 inches possible over San Salvador and Rum Cay through Thursday morning. Rainfall amounts of 3 to 5 inches are possible over the remainder of the Central Bahamas through Thursday morning, with 1 to 2 inches expected over the Northwest and Southeast Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 500 AM EDT.

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Forecaster Brennan

AXNT20 KNHC 300603
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 AM EDT WED SEP 30 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0000 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 0545 UTC.

...SPECIAL FEATURES...

TROPICAL STORM JOAQUIN IS CENTERED NEAR 25.8N 71.7W AT 30/0300 UTC OR ABOUT 313 NM E OF THE NORTHWESTERN BAHAMAS MOVING WSW AT 4 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 988 MB. MAXIMUM SUSTAINED WIND SPEED IS 60 KT WITH GUSTS TO 75 KT. NUMEROUS MODERATE/ISOLATED STRONG CONVECTION AND ISOLATED TSTMS ARE FROM 24N TO 28N BETWEEN 68W AND 73W AND FROM 21N TO 24N BETWEEN 68W AND 75W. JOAQUIN IS EXPECTED TO BECOME A HURRICANE LATER TONIGHT OR WEDNESDAY. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC NEAR THE CAPE VERDE ISLANDS WITH TILTED AXIS EXTENDING FROM 16N19W SW TO A 1009 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 11N23W...MOVING W AT 5 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB THAT ALONG WITH MIDDLE TO UPPER LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORT SCATTERED TO ISOLATED MODERATE CONVECTION FROM 06N TO 16N E OF 30W.

A TROPICAL WAVE IS IN THE CENTRAL ATLC WITH TILTED AXIS EXTENDING FROM 16N36W SW TO A 1010 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 10N39W...MOVING W AT 5-10 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB. HOWEVER...SOME DRY AIR INTRUSION IS ALSO DEPICTED IN THE N-

NW WAVE ENVIRONMENT...WHERE METEOSAT ENHANCED IMAGERY SHOW DRY AIR AND DUST. SCATTERED MODERATE CONVECTION IS FROM 08N TO 11N BETWEEN 37W AND 44W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM A 1009 MB LOW IN THE E ATLC NEAR 11N23W TO 11N34W TO A 1010 MB LOW NEAR 10N39W TO 09N46W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N46W TO 06N54W. FOR CONVECTION INFORMATION SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

SOUTHWESTERLY FLOW CONTINUE TO DOMINATE THE GULF WATERS BETWEEN A MIDDLE TO UPPER LEVEL TROUGH EXTENDING FROM OVER THE MID-MISSISSIPPI RIVER VALLEY SW TO A BASE OVER NE MEXICO AND AN ELONGATED MIDDLE TO UPPER LEVEL RIDGE ANCHORED OVER THE STRAITS OF FLORIDA. AT THE SURFACE...LOW PRESSURE PREVAILS...EXCEPT IN THE SW BASIN WHERE A WEAK 1011 MB HIGH PRESSURE CENTER IS BEING ANALYZED. A 1010 MB LOW IS IN THE NW GULF NEAR 26N93W WITH ASSOCIATED TROUGH EXTENDING NE TO 29N90W. DRY AIR AND STRONG DEEP LAYER WIND SHEAR INHIBIT CONVECTION NEAR THE LOW. A SECOND LOW OF 1008 MB IS OVER THE BORDER BETWEEN S-SW GEORGIA AND NORTHERN FLORIDA WITH ASSOCIATED TROUGH EXTENDING FROM SOUTHERN MISSISSIPPI TO THE LOW TO SE TO NE FLORIDA OFFSHORE WATERS. FINALLY...A SURFACE TROUGH CONTINUES OVER THE YUCATAN PENINSULA WITH AXIS EXTENDING NE ACROSS THE SE GULF TO 26N84W. BOTH AREAS OF LOW PRESSURE ARE EMBEDDED IN A MODERATE MOIST LOW LEVEL ENVIRONMENT THAT ENHANCES SCATTERED TO ISOLATED SHOWERS E OF 89W. LOOKING AHEAD...A COLD FRONT IS FORECAST TO FORM AND MOVE ACROSS THE WESTERN GULF LATE THURSDAY INTO FRIDAY INTRODUCING MODERATE TO FRESH NORTH-NORTHEASTERLY WINDS THROUGH SATURDAY.

CARIBBEAN SEA...

NORTHEASTERLY FLOW PREVAILS OVER MUCH OF THE CENTRAL AND WESTERN CARIBBEAN THAT IS PROVIDING OVERALL STABLE CONDITIONS AND FAIR WEATHER. HOWEVER...ONE EXCEPTION LIES ACROSS THE FAR NW CARIBBEAN WHERE UPPER LEVEL DIFFLUENCE ALONG WITH A LOW LEVEL MOIST ENVIRONMENT SUPPORT ISOLATED SHOWERS W OF 85W. ANOTHER AREA OF ONGOING CONVECTION IS OCCURRING IN THE SW BASIN IN ASSOCIATION WITH CLOSE PROXIMITY OF THE MONSOON TROUGH ANALYZED ALONG 10N FROM COSTA RICA TO NORTHERN COLOMBIA. CLOUDINESS AND POSSIBLE ISOLATED SHOWERS CONTINUES OVER HISPANIOLA BEING

SUPPORTED BY THE OUTER RAIN BANDS OF TROPICAL STORM JOAQUIN IN THE SW N ATLC. OTHERWISE...MOSTLY CLEAR SKIES PREVAIL ELSEWHERE SUPPORTED BY DRY AIR SUBSIDENCE FROM ALOFT AS SHOWN BY WATER VAPOR IMAGERY. MAINLY MODERATE TO FRESH TRADES PERSIST WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

THE OUTER CLOUD/RAIN BANDS OF TROPICAL STORM JOAQUIN IN THE SW N ATLC CONTINUE TO SUPPORT CLOUDINESS AND POSSIBLE ISOLATED SHOWERS ACROSS THE ISLAND. INTERMITTENT SHOWERS ARE EXPECTED TO CONTINUE THROUGH LATE THURSDAY AS JOAQUIN INTENSIFY INTO A HURRICANE AND MOVES WSW TOWARDS THE BAHAMAS BEFORE TAKING A NORTHWARD TURN FRIDAY.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLC IS TROPICAL STORM JOAQUIN THAT IS EXPECTED TO BECOME A HURRICANE LATER TONIGHT OR WEDNESDAY. SEE SPECIAL FEATURES. AHEAD OF JOAQUIN...A LOW PRESSURE CENTER BETWEEN SOUTHERN GEORGIA AND NORTHERN FLORIDA IS ASSOCIATED WITH A TROUGH THAT EXTENDS SE TO NE FLORIDA OFFSHORE WATERS WHERE IT ENHANCES SCATTERED MODERATE CONVECTION AND TSTMS FROM 27N TO 31N W OF 78W. TO THE EAST OF JOAQUIN...A LARGE AREA OF DISTURBED WEATHER IS IN THE CENTRAL ATLC ASSOCIATED WITH A FRONTAL TROUGH AND THE REMNANTS OF IDA. THE CENTER OF THIS DISTURBANCE IS A 1009 MB LOW NEAR 24N57W FROM WHICH A TROUGH EXTENDS FROM 25N61W TO THE LOW TO 23N55W. SCATTERED MODERATE CONVECTION AND TSTMS ARE FROM 22N TO 26N BETWEEN 51W AND 60W. A BROAD UPPER TROUGH OVER THE CENTRAL N ATLC SUPPORTS A COLD FRONT ALONG 30N25W TO 28N29W WHERE IT TRANSITIONS INTO A STATIONARY FRONT TO A 1014 MB LOW NEAR 25N37W TO 25N50W TO 29N58W. SCATTERED MODERATE CONVECTION IS WITHIN 120 NM EITHER SIDE OF THE FRONTAL BOUNDARY.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

AGXX40 KNHC 300717
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
317 AM EDT WED SEP 30 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. MEDIUM CONFIDENCE.

A SHARP UPPER TROUGH ALONG THE COAST OF TEXAS CONTINUES TO PROVIDE
SUPPORT TO 1008 MB SURFACE LOW PRES CENTERED IN THE NW GULF NEAR
26.5N93.5W. THIS LOW IS FORECAST TO OPEN UP INTO A TROUGH AS IT
TRANSITS THE GULF OVER THE NEXT 48 HOURS. CONDITIONS HAVE IMPROVED
MARKEDLY OVER THE EASTERN GULF AS CONVECTIVE ACTIVITY HAS SWEEP N
OF THE AREA AND IS FOCUSED MORE ALONG THE EAST COAST OF THE U.S.

GLOBAL MODELS INDICATE THE UPPER TROUGH WILL DE-AMPLIFY SLIGHTLY
AS IT DRIFTS EAST ACROSS THE GULF THROUGH EARLY THU...THEN BE
REPLACED BY A MUCH DEEPER TROUGH LATE THU AND POTENTIAL CLOSED
OFF LOW FRI AND SAT. AS A RESULT THE SURFACE TROUGH NOTED ABOVE
WILL DRIFT INTO THE SOUTHERN GULF BY THU AND FRI AHEAD OF A COLD
FRONT EXPECTED TO SLIP INTO THE NORTHERN GULF BY THU. THIS FRONT
WILL SWEEP RAPIDLY SE AND EXTEND FROM TAMPA BAY TO THE BAY OF
CAMPECHE MID-DAY FRI AND CLEAR THE GULF BY EARLY SAT WITH FRESH TO
STRONG NORTH-NORTHWEST WINDS IN ITS WAKE. DEPENDING ON THE
ULTIMATE TRACK OF JOAQUIN WELL N OF THE AREA A SURGE OF STRONG
WEST TO NORTHWEST WINDS ARE POSSIBLE OVER THE E GULF LATE SAT INTO
SUN WITH THE POTENTIAL FOR HIGHER SEAS TO 8 FT OVER THE FAR E GULF
WITH IMPACTS ON THE WEST COAST OF FLORIDA. NO OTHER MAJOR
DIFFERENCES IN MODEL OUTPUT ARE NOTED.

...CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS. LATEST TAFB NWPS FOR
WAVE PARAMETERS. MEDIUM TO HIGH CONFIDENCE.

SHIP OBSERVATIONS AND SCATTEROMETER PASSES FROM 0152 AND 0240 UTC
INDICATED 15 TO LOCALLY 20 KT TRADE WINDS OVER THE S CENTRAL

CARIBBEAN...WITH GENERALLY LIGHT TO GENTLE BREEZES ELSEWHERE. THE SUBTROPICAL RIDGE THAT IS USUALLY NORTH OF THE REGION RESPONSIBLE FOR MUCH OF THE STRONGER TRADE WIND FLOW HAS BEEN DISPLACED BY T.S. JOAQUIN NOW LOCATED 300 NM EAST OF THE NORTHWESTERN BAHAMAS. THIS IS RESULTING IN WELL BELOW NORMAL TRADE WIND FLOW IN THE AREA. THIS TREND WILL CONTINUE AS THE RIDGE AXIS BRIEFLY BECOMES DISPLACED FARTHER SOUTH INTO THE NORTHERN CARIBBEAN. ASIDE FROM LIGHT WINDS...ANOTHER UNUSUAL IMPACT OF THE MOVEMENT OF JOAQUIN NEAR THE BAHAMAS WILL BE ANOMALOUS SW TO W WINDS SPREADING OVER MUCH OF THE NW CARIBBEAN AND THE WINDWARD PASSAGE LATER TODAY INTO

THE EARLY PART OF THE WEEKEND. DEPENDING ON THE TRACK AND INTENSITY OF JOAQUIN...THE SW FLOW MAY BE SLIGHTLY STRONGER THAN ANTICIPATED. THE UKMET/GFS MODELS ARE FORECASTING SW WINDS TO 25 NEAR THE WINDWARD PASSAGE LATE THU INTO FRI. OTHERWISE NO MAJOR DIFFERENCES IN MODEL OUTPUT.

...SW N ATLANTIC INCLUDING THE BAHAMAS...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS AND OFFICIAL NHC FORECAST FOR JOAQUIN WINDS. LATEST TAFB NWPS FOR WAVE PARAMETERS. MEDIUM CONFIDENCE.

THE FORECAST FOR THE SW ATLC IS DEPENDENT UPON THE DEVELOPMENT AND MOVEMENT OF T.S. JOAQUIN...NOW CENTERED ABOUT 300 NM EAST OF THE NORTHWESTERN BAHAMAS. JOAQUIN IS FORECAST TO CONTINUE SLOWLY WEST-SOUTHWEST THROUGH THE NEXT 48 HOURS THEN TURN NORTH AND ACCELERATE. LONG PERIOD NE TO E SWELL REMAINS IN PLACE OVER MUCH OF THE REGION N OF 25N AND THE BAHAMAS...THE RESULT OF A LONG FETCH OF EASTERLY WINDS ALONG A FRONTAL BOUNDARY OVER THE CENTRAL

ATLC. THERE IS CONSIDERABLE UNCERTAINTY AMONG MAJOR MODELS WITH THE DETAILS OF TRACK...INTENSITY AND TIMING NOT ONLY OF JOAQUIN BUT ALSO THE SURROUNDING ENVIRONMENT. WITH THE CURRENT MOVEMENTS MARINE INTERESTS ALONG THE ATLC EXPOSURES OF THE CENTRAL AND NORTHERN BAHAMAS SHOULD BE AWARE OF HIGHER SEAS ON THE PERIPHERY OF JOAQUIN THROUGH THE NEXT THREE DAYS BEFORE THE STORM MOVES SUFFICIENTLY NORTH OF THE AREA. AS THE STORM AND ITS EFFECTS SHIFT NORTH OF THE AREA BY SUN...EXPECT GENTLE TO MODERATE SW TO W WINDS ACROSS THE REGION...EXCEPT RESIDUAL STRONG SW WINDS N OF 25N AND W OF 73W. SEAS HERE WILL BE SLOW TO SUBSIDE.

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.WARNINGS...ANY CHANGES IMPACTING COASTAL NWS OFFICES WILL BE COORDINATED THROUGH AWIPS 12 PLANET CHAT OR BY TELEPHONE:

.GULF OF MEXICO...
NONE.

.CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...
NONE.

.SW N ATLANTIC INCLUDING THE BAHAMAS...
.AMZ117...BAHAMAS INCLUDING CAY SAL BANK...
TROPICAL STORM WARNING THU.
HURRICANE WARNING THU NIGHT.
.AMZ119...ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W...
TROPICAL STORM WARNING EARLY TODAY.
HURRICANE WARNING TODAY INTO THU NIGHT.

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*FOR DETAILED ZONE DESCRIPTIONS PLEASE VISIT:
[HTTP://WWW.NHC.NOAA.GOV/ABOUTTAFBPROD.SHTML#OWF](http://www.nhc.noaa.gov/abouttafbprod.shtml#owf)

NOTE: GRIDDED MARINE FORECASTS ARE AVAILABLE IN THE
NATIONAL DIGITAL FORECAST DATABASE (NDFD) AT:
[HTTP://WWW.NHC.NOAA.GOV/MARINE/GRIDS.PHP](http://www.nhc.noaa.gov/marine/grids.php)

FOR ADDITIONAL INFORMATION PLEASE VISIT:
[HTTP://WWW.HURRICANE WARNINGS.GOV/MARINE](http://www.hurricanewarnings.gov/marine)

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.FORECASTER COBB. NATIONAL HURRICANE CENTER.

FKNT21 KNHC 300837
TCANT1

TROPICAL STORM JOAQUIN ICAO ADVISORY NUMBER 10
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC WED SEP 30 2015

TC ADVISORY

DTG: 20150930/0900Z
TCAC: KNHC
TC: JOAQUIN
NR: 010
PSN: N2524 W07230
MOV: WSW 05KT
C: 0988HPA
MAX WIND: 060KT
FCST PSN + 06 HR: 301500 N2512 W07250
FCST MAX WIND + 06 HR: 065KT
FCST PSN + 12 HR: 302100 N2500 W07312
FCST MAX WIND + 12 HR: 070KT
FCST PSN + 18 HR: 010300 N2448 W07336
FCST MAX WIND + 18 HR: 075KT
FCST PSN + 24 HR: 010900 N2442 W07358
FCST MAX WIND + 24 HR: 075KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150930/1500Z

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WTNT21 KNHC 300837
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 10
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC WED SEP 30 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A HURRICANE WARNING FOR THE CENTRAL BAHAMAS...INCLUDING CAT ISLAND...THE EXUMAS...LONG ISLAND...RUM CAY...AND SAN SALVADOR.

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A HURRICANE WATCH FOR THE NORTHWESTERN BAHAMAS EXCLUDING ANDROS ISLAND. THIS INCLUDES THE ABACOS...BERRY ISLANDS...BIMINI...ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

* CENTRAL BAHAMAS

A HURRICANE WARNING IS IN EFFECT FOR...

* NORTHWESTERN BAHAMAS EXCLUDING ANDROS ISLAND

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA. A WARNING IS TYPICALLY ISSUED 36 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL STORM FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA...IN THIS CASE WITHIN THE NEXT 36 TO 48 HOURS.

TROPICAL STORM CENTER LOCATED NEAR 25.4N 72.5W AT 30/0900Z
POSITION ACCURATE WITHIN 25 NM

PRESENT MOVEMENT TOWARD THE WEST-SOUTHWEST OR 245 DEGREES AT 5
KT

ESTIMATED MINIMUM CENTRAL PRESSURE 988 MB
MAX SUSTAINED WINDS 60 KT WITH GUSTS TO 75 KT.
50 KT..... 40NE 50SE 0SW 0NW.

34 KT.....100NE 110SE 40SW 60NW.
12 FT SEAS..150NE 90SE 60SW 120NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 25.4N 72.5W AT 30/0900Z
AT 30/0600Z CENTER WAS LOCATED NEAR 25.6N 72.0W

FORECAST VALID 30/1800Z 25.1N 73.0W
MAX WIND 70 KT...GUSTS 85 KT.
64 KT... 20NE 20SE 0SW 0NW.
50 KT... 50NE 50SE 0SW 20NW.
34 KT...100NE 110SE 50SW 70NW.

FORECAST VALID 01/0600Z 24.7N 73.8W
MAX WIND 75 KT...GUSTS 90 KT.
64 KT... 30NE 30SE 0SW 20NW.
50 KT... 50NE 50SE 30SW 30NW.
34 KT...110NE 110SE 60SW 70NW.

FORECAST VALID 01/1800Z 24.7N 74.5W
MAX WIND 80 KT...GUSTS 100 KT.
64 KT... 30NE 30SE 0SW 20NW.
50 KT... 60NE 60SE 30SW 40NW.
34 KT...110NE 110SE 60SW 70NW.

FORECAST VALID 02/0600Z 25.2N 74.7W
MAX WIND 90 KT...GUSTS 110 KT.
50 KT... 60NE 60SE 40SW 50NW.
34 KT...120NE 120SE 70SW 80NW.

FORECAST VALID 03/0600Z 28.3N 73.5W
MAX WIND 95 KT...GUSTS 115 KT.
50 KT... 80NE 80SE 60SW 70NW.
34 KT...150NE 150SE 90SW 120NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 04/0600Z 33.0N 73.0W
MAX WIND 85 KT...GUSTS 105 KT.

OUTLOOK VALID 05/0600Z 37.0N 73.5W
MAX WIND 80 KT...GUSTS 100 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 25.4N 72.5W

NEXT ADVISORY AT 30/1500Z

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FORECASTER BRENNAN

WTNT31 KNHC 300843
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 10
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT WED SEP 30 2015

...HURRICANE WARNING ISSUED FOR THE CENTRAL BAHAMAS...
...HURRICANE HUNTERS ON THEIR WAY TO INVESTIGATE JOAQUIN...

SUMMARY OF 500 AM EDT...0900 UTC...INFORMATION

LOCATION...25.4N 72.5W
ABOUT 240 MI...390 KM ENE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...70 MPH...110 KM/H
PRESENT MOVEMENT...WSW OR 245 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...988 MB...29.18 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The government of the Bahamas has issued a Hurricane Warning for the central Bahamas, including Cat Island, the Exumas, Long Island, Rum Cay, and San Salvador.

The government of the Bahamas has issued a Hurricane Watch for the northwestern Bahamas excluding Andros Island. This includes the Abacos, Berry Islands, Bimini, Eleuthera, Grand Bahama Island, and New Providence.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...
* Central Bahamas

A Hurricane Warning is in effect for...
* Northwestern Bahamas excluding Andros Island

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical storm force winds, conditions that make outside preparations difficult or

dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area, in this case within the next 36 to 48 hours.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 AM EDT (0900 UTC), the center of Tropical Storm Joaquin was located near latitude 25.4 North, longitude 72.5 West. Joaquin is moving toward the west-southwest near 6 mph (9 km/h), and this motion is expected to continue through tonight. A turn toward the west and a decrease in forward speed are forecast on Thursday. On the forecast track, the center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday.

Maximum sustained winds are near 70 mph (110 km/h) with higher gusts. Strengthening is forecast during the next 48 hours, and Joaquin is forecast to become a hurricane today. An Air Force Reserve Hurricane Hunter aircraft is en route to investigate Joaquin this morning.

Tropical storm force winds extend outward up to 125 miles (205 km) from the center.

The estimated minimum central pressure is 988 mb (29.18 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach the hurricane warning area by midday Thursday. Winds are expected to first reach tropical storm strength in the warning area tonight, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

RAINFALL: Joaquin is expected to produce 5 to 10 inches of rain with isolated maximum amounts of 15 inches possible over San Salvador and Rum Cay through Friday morning. Rainfall amounts of 3 to 5 inches are possible over the remainder of the central Bahamas through Friday morning, with 2 to 4 inches expected over the northwestern and southeastern Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the east coast of Florida and the southeast coast of the United States by Friday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 800 AM EDT.

Next complete advisory at 1100 AM EDT.

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Forecaster Brennan

WTNT41 KNHC 300849
TCDAT1

TROPICAL STORM JOAQUIN DISCUSSION NUMBER 10
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT WED SEP 30 2015

The coldest convective cloud tops are located to the east of the estimated center position, but there have been hints of an eye in infrared imagery overnight. Based on a blend of the latest Dvorak estimates from TAFB and SAB, the initial intensity remains 60 kt. An Air Force Reserve Hurricane Hunter aircraft is on its way to investigate Joaquin this morning. Conditions are expected to be conducive for intensification during the next few days, with Joaquin moving over very warm waters with shear steadily decreasing. The hurricane intensity guidance and the latest runs of the GFS, UKMET, and ECMWF all show Joaquin intensifying, and in fact, the global models show the central pressure in the 950s or lower. The NHC forecast is near the latest intensity model consensus, and has Joaquin peaking in 72 hours. After that time, the cyclone will be moving into a higher shear environment and over cooler waters, which should result in slow weakening.

Joaquin continues to move west-southwestward under the influence of a short-wave ridge to its north, and the initial motion estimate is 245/05. This motion should continue for the next 24 hours, and Joaquin is expected to then turn slowly westward as the ridge weakens on Thursday. The UKMET and ECMWF continue to show Joaquin moving farther southwestward into the central Bahamas than the rest of the guidance. The new NHC track in the short range is a little south of the previous one, but north of the UKMET/ECMWF solution. Given this new forecast, the government of the Bahamas has issued a Hurricane Warning for the central Bahamas and a Hurricane Watch for part of the northwestern Bahamas.

After 36 hours, Joaquin is forecast to turn northwestward and then northward as it interacts with a deep-layer trough that cuts off over the southeastern United States in about 3 days. Much of the deterministic guidance shows Joaquin turning northwestward toward the mid-Atlantic coast by days 4 and 5. However, the ECMWF continues to show an offshore solution with a track west of Bermuda, but has shifted to the left this cycle by about 150 miles at day 5. While the overall synoptic pattern is similar between the models, the eventual track of Joaquin appears sensitive to just how far southwest it moves in the first 36 to 48 hours and how this affect the eventual interaction with the upper-level low. The GFS, HWRF,

and GFDL show a sharp turn back to toward the coast in 4 days, while the ECMWF is slower to bring Joaquin northward and ejects the cyclone toward the northeast. The UKMET is between those two scenarios with a broader turn back toward the coast by day 5. There is still ensemble support for a wide range of solutions, so confidence in any deterministic model solution remains quite low. The NHC track has been nudged a little to the left this cycle to reflect the westward shift in the guidance, but lies on the eastern side of the guidance envelope given the ECMWF solution.

Confidence in the details of the track forecast late in the period remains very low, since the environmental steering currents are complex and not being handled in a consistent manner by the models. Given that a wide range of outcomes is possible, it is too soon to say what impacts, if any, Joaquin will have on the United States.

FORECAST POSITIONS AND MAX WINDS

INIT	30/0900Z	25.4N	72.5W	60 KT	70 MPH
12H	30/1800Z	25.1N	73.0W	70 KT	80 MPH
24H	01/0600Z	24.7N	73.8W	75 KT	85 MPH
36H	01/1800Z	24.7N	74.5W	80 KT	90 MPH
48H	02/0600Z	25.2N	74.7W	90 KT	105 MPH
72H	03/0600Z	28.3N	73.5W	95 KT	110 MPH
96H	04/0600Z	33.0N	73.0W	85 KT	100 MPH
120H	05/0600Z	37.0N	73.5W	80 KT	90 MPH

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Forecaster Brennan

FZNT02 KNHC 300904
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1030 UTC WED SEP 30 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC WED SEP 30.
24 HOUR FORECAST VALID 0600 UTC THU OCT 01.
48 HOUR FORECAST VALID 0600 UTC FRI OCT 02.

.WARNINGS.

...HURRICANE WARNING...

.TROPICAL STORM JOAQUIN NEAR 25.4N 72.5W 988 MB AT 0900 UTC SEP
30 MOVING WSW OR 245 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 60 KT
GUSTS 75 KT. TROPICAL STORM FORCE WINDS WITHIN 100 NM NE
QUADRANT...110 NM SE QUADRANT...40 NM SW QUADRANT...AND 60 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 150 NM NE QUADRANT...90
NM SE QUADRANT...60 NM SW QUADRANT...AND 120 NM NW QUADRANT WITH
SEAS TO 22 FT. ELSEWHERE WITHIN 210 NM NE AND 120 NM SW
SEMICIRCLES WINDS 20 TO 33 KT. SEAS 9 TO 12 FT. REMAINDER OF
AREA N OF 24N BETWEEN 66W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO
10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.7N 73.8W. MAXIMUM
SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS
WITHIN 110 NM E SEMICIRCLE...60 NM SW QUADRANT AND 70 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 210 NM N AND 90 NM S
SEMICIRCLES WITH SEAS TO 27 FT. ELSEWHERE WITHIN 240 NM NE AND
120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT.
REMAINDER OF AREA N OF 23N BETWEEN 68W AND 77W AND OUTSIDE THE
BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.2N 74.7W. MAXIMUM
SUSTAINED WINDS 90 KT GUSTS 110 KT. TROPICAL STORM FORCE WINDS
WITHIN 120 NM E SEMICIRCLE...70 NM SW QUADRANT AND 80 NM NW

QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 120 NM S SEMICIRCLES WITH SEAS TO 31 FT. ELSEWHERE WITHIN 300 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 68W AND 78W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL. .72 HOUR FORECAST HURRICANE JOAQUIN NEAR 28.3N 73.5W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE. .96 HOUR FORECAST HURRICANE JOAQUIN NEAR 33.0N 73.0W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT. .120 HOUR FORECAST HURRICANE JOAQUIN NEAR 37.0N 73.5W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC STATIONARY FRONT FROM 27N35W TO 23N45W TO 28N60W. N OF FRONT W OF 45W NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 13 FT. N OF 29N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN E SWELL. ELSEWHERE N OF A LINE FROM 23N35W TO 22N45W TO 25N55W TO 26N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.

.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO 25N50W THEN TROUGH TO 25N60W TO 29N65W. N OF TROUGH BETWEEN 52W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF FRONT AND TROUGH BETWEEN 50W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST LOW PRES 1004 MB NEAR 26N55W. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER COBB. NATIONAL HURRICANE CENTER.

FZNT23 KNHC 300914
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
514 AM EDT WED SEP 30 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-302115-
BAHAMAS INCLUDING CAY SAL BANK-
514 AM EDT WED SEP 30 2015

...HURRICANE WARNING...

.TODAY...W TO NW WINDS 15 TO 20 KT...INCREASING TO 20 TO 25 KT
IN THE AFTERNOON. SEAS 8 TO 9 FT ATLC EXPOSURES...AND 4 TO 6 FT
ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.TONIGHT...TROPICAL STORM CONDITIONS POSSIBLE. ATLC EXPOSURES...
W TO NW WINDS 20 TO 25 KT...INCREASING TO 25 TO 30 KT LATE.
ELSEWHERE...W TO NW WINDS 15 TO 20 KT. SEAS 10 TO
11 FT ATLC EXPOSURES... AND 5 FT ELSEWHERE. SCATTERED SHOWERS AND
TSTMS.
.THU...TROPICAL STORM CONDITIONS EXPECTED. ATLC EXPOSURES...W TO
NW WINDS 50 TO 60 KT. SEAS 12 TO 14 FT. ELSEWHERE...W TO NW
WINDS 20 TO 25 KT. SEAS 5 FT. SCATTERED SHOWERS AND
TSTMS...BECOMING NUMEROUS.
.THU NIGHT...TROPICAL STORM CONDITIONS EXPECTED. ATLC
EXPOSURES...W TO NW WINDS 65 TO 75 KT. SEAS 15 FT. ELSEWHERE...
W TO NW WINDS 25 TO 30 KT. SEAS 5 TO 9 FT. NUMEROUS SHOWERS AND
TSTMS.
.FRI...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES... W WINDS
45 TO 50 KT...DIMINISHING TO 25 TO 30 KT IN THE AFTERNOON.
ELSEWHERE...W TO NW WINDS 20 TO 25 KT. SEAS 16 TO 17 FT ATLC
EXPOSURES...AND 6 FT ELSEWHERE.
.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE.
.SAT...W WINDS 15 TO 20 KT. SEAS 10 TO 11 FT ATLC EXPOSURES...
AND 5 FT ELSEWHERE.
.SAT NIGHT...W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT

LATE. SEAS 9 TO 10 FT ATLC EXPOSURES...AND 4 TO 5 FT ELSEWHERE.

.SUN...W WINDS 10 TO 15 KT. SEAS 8 TO 9 FT ATLC EXPOSURES...AND 4 FT ELSEWHERE.

\$\$

AMZ119-302115-

ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
514 AM EDT WED SEP 30 2015

...HURRICANE WARNING...

.TODAY...TROPICAL STORM CONDITIONS. N OF 25N...NW TO N WINDS 50 TO 55 KT...SHIFTING TO N TO NE 60 TO 70 KT IN THE AFTERNOON. ELSEWHERE...SW TO W WINDS 40 TO 45 KT...INCREASING TO 50 TO 60 KT IN THE AFTERNOON. SEAS 18 FT N OF 25N...AND 10 TO 11 FT ELSEWHERE. SCATTERED SHOWERS AND TSTMS. VSBY 1 NM OR LESS.

.TONIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N...E WINDS 55 TO 70 KT. SEAS 18 FT. ELSEWHERE...SW WINDS 50 TO 65KT.

SEAS 12 FT. NUMEROUS SHOWERS AND TSTMS. VSBY 1 NM OR LESS.

.THU...HURRICANE CONDITIONS EXPECTED. N OF 25N...SE WINDS 55 TO 65 KT. SEAS 18 FT. ELSEWHERE...S TO SW WINDS 60 TO 75 KT. SEAS 14 TO 16 FT. NUMEROUS SHOWERS AND TSTMS. VSBY 1 NM OR LESS.

.THU NIGHT...HURRICANE CONDITIONS EXPECTED. S WINDS 65 TO 75 KT. SEAS 20 TO 21 FT. SCATTERED SHOWERS AND TSTMS. VSBY 1 NM OR LESS.

.FRI...HURRICANE CONDITIONS POSSIBLE. N OF 25N...S WINDS 65 TO 75 KT. ELSEWHERE...S TO SW WINDS 60 TO 70 KT...BECOMING SW 30 TO 35 KT IN THE AFTERNOON. SEAS 23 TO 25 FT N OF 25N...AND 19 TO 20 FT ELSEWHERE.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE.

.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT NIGHT...SW TO W WINDS 15 TO 20 KT. SEAS 10 TO 13 FT N OF 25N...AND 8 TO 9 FT ELSEWHERE.

.SUN...SW TO W WINDS 10 TO 15 KT. SEAS 8 TO 9 FT.

FZNT01 KWBC 300947

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1030 UTC WED SEP 30 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0600 UTC SEP 30

24 HOUR FORECAST VALID 0600 UTC OCT 01

48 HOUR FORECAST VALID 0600 UTC OCT 02

.WARNINGS.

...GALE WARNING...

.LOW 40N76W 1004 MB MOVING NE 20 KT. WITHIN AN AREA BOUNDED BY 40N73W...37N74W...31N63W...31N54W...40N70W...40N73W WINDS 20 TO 30 KT. SEAS TO 11 FT.

.12 HOUR FORECAST LOW 40N74W. FROM 41N TO 45N W OF 67W WINDS 25 TO 35 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW 44N66W 1008 MB. FROM 46N TO 49N W OF 62W WINDS 25 TO 35 KT. SEAS TO 10 FT. ELSEWHERE FROM 40N TO 50N W OF 60W...AND S OF 40N BETWEEN 60W AND 70W...AND S OF A LINE FROM 33N60W TO 31N56W WINDS 20 TO 30 KT. SEAS TO 11 FT.

.48 HOUR FORECAST LOW 52N52W 1010 MB. WITHIN 240 NM NW SEMICIRCLE WINDS 25 TO 35 KT. SEAS 8 TO 14 FT. ELSEWHERE WITHIN 120 NM E...180 NM S AND 420 NM W QUADRANTS WINDS 20 TO 30 KT. SEAS TO 10 FT.

...GALE WARNING...

.48 HOUR FORECAST W OF A LINE FROM 43N67W TO 41N68W TO 38N71W TO 36N76W WINDS 25 TO 40 KT. SEAS 10 TO 16 FT. ELSEWHERE S OF 35N BETWEEN 67W AND 74W...AND W OF A LINE FROM 45N61W TO 40N68W WINDS 20 TO 30 KT. SEAS TO 11 FT.

...GALE WARNING...

.24 HOUR FORECAST LOW 64N37W 1005 MB. FROM 59N TO 61N BETWEEN 39W AND 43W WINDS 25 TO 35 KT. SEAS TO 10 FT. ELSEWHERE WITHIN 360 NM S AND SE QUADRANTS WINDS 20 TO 30 KT. SEAS TO 8 FT.

.48 HOUR FORECAST LOW DISSIPATED WITH CONDITIONS DIMINISHED.

.SYNOPSIS AND FORECAST.

.LOW 52N58W 1009 MB MOVING NE 20 KT. WITHIN 360 NM S QUADRANT WINDS TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST DISSIPATED WITH CONDITIONS DIMINISHED.

.24 HOUR FORECAST LOW E OF AREA 38N30W 1000 MB. OVER FORECAST WATERS WITHIN 480 NM NW QUADRANT WINDS TO 25 KT. SEAS 8 TO 13

FT. .48 HOUR FORECAST LOW E OF AREA 41N29W 1000 MB. OVER FORECAST WATERS WITHIN 480 NM W AND NW QUADRANTS WINDS LESS THAN 25 KT. SEAS TO 10 FT.

.48 HOUR FORECAST FROM 64N TO 66N W OF 58W WINDS 20 TO 30 KT. SEAS TO 8 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS FROM 51N TO 59N E OF 47W AND WITHIN 180 NM E OF A LINE FROM 52N55W TO 45N50W...ALSO FROM 47N TO 50N W OF 60W.

.24 HOUR FORECAST DENSE FOG WITHIN 180 NM S AND SE OF A LINE FROM 54N42W TO 58N35W...ALSO FROM 46N TO 52N BETWEEN 46W AND 52W.

.48 HOUR FORECAST DENSE FOG FROM 47N TO 53N BETWEEN 45W AND 53W. HIGH 41N52W 1028 MB MOVING N 10 KT.

.24 HOUR FORECAST HIGH 44N51W 1026 MB.

.48 HOUR FORECAST HIGH 44N51W 1023 MB.

.FORECASTER SHAW. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC WED SEP 30.

24 HOUR FORECAST VALID 0600 UTC THU OCT 01.

48 HOUR FORECAST VALID 0600 UTC FRI OCT 02.

.WARNINGS.

...HURRICANE WARNING...

.TROPICAL STORM JOAQUIN NEAR 25.4N 72.5W 988 MB AT 0900 UTC SEP 30 MOVING WSW OR 245 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT. TROPICAL STORM FORCE WINDS WITHIN 100 NM NE QUADRANT...110 NM SE QUADRANT...40 NM SW QUADRANT...AND 60 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 150 NM NE QUADRANT...90 NM SE QUADRANT...60 NM SW QUADRANT...AND 120 NM NW QUADRANT WITH SEAS TO 22 FT. ELSEWHERE WITHIN 210 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 9 TO 12 FT. REMAINDER OF AREA N OF 24N BETWEEN 66W AND 75W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.7N 73.8W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 110 NM E SEMICIRCLE...60 NM SW QUADRANT AND 70 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 210 NM N AND 90 NM S SEMICIRCLES WITH SEAS TO 27 FT. ELSEWHERE WITHIN 240 NM NE AND 120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 23N BETWEEN 68W AND 77W AND OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.2N 74.7W. MAXIMUM SUSTAINED WINDS 90 KT GUSTS 110 KT. TROPICAL STORM FORCE WINDS WITHIN 120 NM E SEMICIRCLE...70 NM SW QUADRANT AND 80 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 120 NM S

SEMICIRCLES WITH SEAS TO 31 FT. ELSEWHERE WITHIN 300 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT.
REMAINDER OF AREA N OF 22N BETWEEN 68W AND 78W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.
.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 28.3N 73.5W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 33.0N 73.0W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT.
.120 HOUR FORECAST HURRICANE JOAQUIN NEAR 37.0N 73.5W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.
FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.
.SYNOPSIS AND FORECAST.
.ATLC STATIONARY FRONT FROM 27N35W TO 23N45W TO 28N60W. N OF FRONT W OF 45W NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 13 FT. N OF 29N BETWEEN 60W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN E SWELL. ELSEWHERE N OF A LINE FROM 23N35W TO 22N45W TO 25N55W TO 26N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.
.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO 25N50W THEN TROUGH TO 25N60W TO 29N65W. N OF TROUGH BETWEEN 52W AND 65W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF FRONT AND TROUGH BETWEEN 50W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.
.48 HOUR FORECAST LOW PRES 1004 MB NEAR 26N55W. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.
.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.
.FORECASTER COBB. NATIONAL HURRICANE CENTER.

WTNT31 KNHC 301033
TCPAT1

BULLETIN

TROPICAL STORM JOAQUIN ADVISORY NUMBER 10...CORRECTED
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT WED SEP 30 2015

Corrected to show Hurricane Watch for the Northwestern Bahamas
excluding Andros Island.

...HURRICANE WARNING ISSUED FOR THE CENTRAL BAHAMAS...
...HURRICANE HUNTERS ON THEIR WAY TO INVESTIGATE JOAQUIN...

SUMMARY OF 500 AM EDT...0900 UTC...INFORMATION

LOCATION...25.4N 72.5W
ABOUT 240 MI...390 KM ENE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...70 MPH...110 KM/H
PRESENT MOVEMENT...WSW OR 245 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...988 MB...29.18 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The government of the Bahamas has issued a Hurricane Warning for
the central Bahamas, including Cat Island, the Exumas, Long Island,
Rum Cay, and San Salvador.

The government of the Bahamas has issued a Hurricane Watch for the
northwestern Bahamas excluding Andros Island. This includes the
Abacos, Berry Islands, Bimini, Eleuthera, Grand Bahama Island, and
New Providence.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

* Central Bahamas

A Hurricane Watch is in effect for...

* Northwestern Bahamas excluding Andros Island

A Hurricane Warning means that hurricane conditions are expected

somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical storm force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area, in this case within the next 36 to 48 hours.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 AM EDT (0900 UTC), the center of Tropical Storm Joaquin was located near latitude 25.4 North, longitude 72.5 West. Joaquin is moving toward the west-southwest near 6 mph (9 km/h), and this motion is expected to continue through tonight. A turn toward the west and a decrease in forward speed are forecast on Thursday. On the forecast track, the center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday.

Maximum sustained winds are near 70 mph (110 km/h) with higher gusts. Strengthening is forecast during the next 48 hours, and Joaquin is forecast to become a hurricane today. An Air Force Reserve Hurricane Hunter aircraft is en route to investigate Joaquin this morning.

Tropical storm force winds extend outward up to 125 miles (205 km) from the center.

The estimated minimum central pressure is 988 mb (29.18 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach the hurricane warning area by midday Thursday. Winds are expected to first reach tropical storm strength in the warning area tonight, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

RAINFALL: Joaquin is expected to produce 5 to 10 inches of rain with isolated maximum amounts of 15 inches possible over San Salvador and Rum Cay through Friday morning. Rainfall amounts of 3

to 5 inches are possible over the remainder of the central Bahamas through Friday morning, with 2 to 4 inches expected over the northwestern and southeastern Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the east coast of Florida and the southeast coast of the United States by Friday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 800 AM EDT.

Next complete advisory at 1100 AM EDT.

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Forecaster Brennan

WTNT21 KNHC 301034
TCMAT1

TROPICAL STORM JOAQUIN FORECAST/ADVISORY NUMBER 10...CORRECTED
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC WED SEP 30 2015

CORRECTED TO SHOW HURRICANE WATCH FOR THE NORTHWESTERN BAHAMAS
EXCLUDING ANDROS ISLAND.

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A HURRICANE WARNING FOR
THE CENTRAL BAHAMAS...INCLUDING CAT ISLAND...THE EXUMAS...LONG
ISLAND...RUM CAY...AND SAN SALVADOR.

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A HURRICANE WATCH FOR
THE
NORTHWESTERN BAHAMAS EXCLUDING ANDROS ISLAND. THIS INCLUDES THE
ABACOS...BERRY ISLANDS...BIMINI...ELEUTHERA...GRAND BAHAMA ISLAND...
AND NEW PROVIDENCE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...
* CENTRAL BAHAMAS

A HURRICANE WATCH IS IN EFFECT FOR...
* NORTHWESTERN BAHAMAS EXCLUDING ANDROS ISLAND

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA. A WARNING IS TYPICALLY ISSUED
36 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL STORM
FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR
DANGEROUS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE
RUSHED TO COMPLETION.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE
WITHIN THE WATCH AREA...IN THIS CASE WITHIN THE NEXT 36 TO 48 HOURS.

TROPICAL STORM CENTER LOCATED NEAR 25.4N 72.5W AT 30/0900Z
POSITION ACCURATE WITHIN 25 NM

PRESENT MOVEMENT TOWARD THE WEST-SOUTHWEST OR 245 DEGREES AT 5
KT

ESTIMATED MINIMUM CENTRAL PRESSURE 988 MB
MAX SUSTAINED WINDS 60 KT WITH GUSTS TO 75 KT.
50 KT..... 40NE 50SE 0SW 0NW.
34 KT.....100NE 110SE 40SW 60NW.
12 FT SEAS..150NE 90SE 60SW 120NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 25.4N 72.5W AT 30/0900Z
AT 30/0600Z CENTER WAS LOCATED NEAR 25.6N 72.0W

FORECAST VALID 30/1800Z 25.1N 73.0W
MAX WIND 70 KT...GUSTS 85 KT.
64 KT... 20NE 20SE 0SW 0NW.
50 KT... 50NE 50SE 0SW 20NW.
34 KT...100NE 110SE 50SW 70NW.

FORECAST VALID 01/0600Z 24.7N 73.8W
MAX WIND 75 KT...GUSTS 90 KT.
64 KT... 30NE 30SE 0SW 20NW.
50 KT... 50NE 50SE 30SW 30NW.
34 KT...110NE 110SE 60SW 70NW.

FORECAST VALID 01/1800Z 24.7N 74.5W
MAX WIND 80 KT...GUSTS 100 KT.
64 KT... 30NE 30SE 0SW 20NW.
50 KT... 60NE 60SE 30SW 40NW.
34 KT...110NE 110SE 60SW 70NW.

FORECAST VALID 02/0600Z 25.2N 74.7W
MAX WIND 90 KT...GUSTS 110 KT.
50 KT... 60NE 60SE 40SW 50NW.
34 KT...120NE 120SE 70SW 80NW.

FORECAST VALID 03/0600Z 28.3N 73.5W
MAX WIND 95 KT...GUSTS 115 KT.
50 KT... 80NE 80SE 60SW 70NW.
34 KT...150NE 150SE 90SW 120NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 04/0600Z 33.0N 73.0W
MAX WIND 85 KT...GUSTS 105 KT.

OUTLOOK VALID 05/0600Z 37.0N 73.5W
MAX WIND 80 KT...GUSTS 100 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 25.4N 72.5W

NEXT ADVISORY AT 30/1500Z

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FORECASTER BRENNAN

AXNT20 KNHC 301041
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT WED SEP 30 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1030 UTC.

...SPECIAL FEATURES...

TROPICAL STORM JOAQUIN IS CENTERED NEAR 25.4N 72.5W AT 30/0900 UTC OR ABOUT 210 NM ENE OF THE CENTRAL BAHAMAS MOVING WSW AT 5 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 988 MB. MAXIMUM SUSTAINED WIND SPEED IS 60 KT WITH GUSTS TO 75 KT. NUMEROUS MODERATE/ISOLATED STRONG CONVECTION AND ISOLATED TSTMS ARE FROM 22N TO 28N BETWEEN 69W AND 75W AND FROM 19N TO 23N BETWEEN 68W AND 73W. JOAQUIN IS EXPECTED TO BECOME A HURRICANE TODAY. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC NEAR THE CAPE VERDE ISLANDS WITH TILTED AXIS EXTENDING FROM 16N21W SW TO A 1009 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 11N23W...MOVING W AT 5 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB THAT ALONG WITH MIDDLE TO UPPER LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORT SCATTERED TO ISOLATED MODERATE CONVECTION FROM 06N TO 16N E OF 31W.

A TROPICAL WAVE IS IN THE CENTRAL ATLC WITH TILTED AXIS EXTENDING FROM 16N36W SW TO A 1009 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 11N39W...MOVING W AT 5-10 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB. HOWEVER...SOME DRY AIR INTRUSION IS ALSO DEPICTED IN THE N-

NW WAVE ENVIRONMENT...WHERE METEOSAT ENHANCED IMAGERY SHOW DRY AIR AND DUST. SCATTERED MODERATE CONVECTION IS FROM 07N TO 10N BETWEEN 36W AND 44W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF SENEGAL NEAR 14N16W SW TO A 1009 MB LOW NEAR 11N23W TO 11N33W TO A 1009 MB LOW NEAR 11N39W TO 09N47W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N47W TO 09N60W. FOR CONVECTION INFORMATION SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

SOUTHWESTERLY FLOW CONTINUE TO DOMINATE THE GULF WATERS BETWEEN A MIDDLE TO UPPER LEVEL TROUGH EXTENDING FROM OVER THE MID-MISSISSIPPI RIVER VALLEY SW TO A BASE OVER NE MEXICO AND AN ELONGATED MIDDLE TO UPPER LEVEL RIDGE ANCHORED OVER THE YUCATAN CHANNEL. AT THE SURFACE...LOW PRESSURE PREVAILS...EXCEPT IN THE SW BASIN WHERE A WEAK 1012 MB HIGH PRESSURE CENTER IS BEING ANALYZED. A 1009 MB LOW IS IN THE NW GULF NEAR 26N93W WITH ASSOCIATED TROUGH EXTENDING NE TO 28N90W. DRY AIR AND STRONG DEEP LAYER WIND SHEAR INHIBIT CONVECTION NEAR THE LOW. FINALLY...A SURFACE TROUGH CONTINUES OVER THE YUCATAN PENINSULA WITH AXIS EXTENDING NE ACROSS THE SE GULF TO 23N85W. MODERATE MOIST LOW LEVEL ENVIRONMENT ENHANCES SCATTERED TO ISOLATED SHOWERS AND TSTMS S OF 25N BETWEEN 85W AND 90W. LOOKING AHEAD...A COLD FRONT IS FORECAST TO FORM AND MOVE ACROSS THE GULF LATE THURSDAY INTO FRIDAY INTRODUCING MODERATE TO FRESH NORTH-NORTHEASTERLY WINDS THROUGH SATURDAY.

CARIBBEAN SEA...

NORTHEASTERLY FLOW PREVAILS OVER MUCH OF THE CENTRAL AND WESTERN CARIBBEAN AND PROVIDES OVERALL STABLE CONDITIONS AND FAIR WEATHER. HOWEVER...ONE EXCEPTION LIES ACROSS THE FAR NW CARIBBEAN WHERE UPPER LEVEL DIFFLUENCE ALONG WITH A LOW LEVEL MOIST ENVIRONMENT SUPPORT ISOLATED SHOWERS W OF 85W. ANOTHER AREA OF ONGOING CONVECTION IS OCCURRING IN THE SW BASIN IN ASSOCIATION WITH CLOSE PROXIMITY OF THE MONSOON TROUGH ANALYZED JUST S OF 10N FROM COSTA RICA TO NORTHERN COLOMBIA OFFSHORE WATERS. CLOUDINESS AND SCATTERED/ISOLATED SHOWERS CONTINUES OVER HISPANIOLA BEING SUPPORTED BY THE OUTER RAIN BANDS OF TROPICAL STORM JOAQUIN IN THE SW N ATLC. OTHERWISE...MOSTLY CLEAR SKIES

PREVAIL ELSEWHERE SUPPORTED BY DRY AIR SUBSIDENCE FROM ALOFT AS SHOWN BY WATER VAPOR IMAGERY. MAINLY MODERATE TO FRESH TRADES PERSIST WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

THE OUTER CLOUD/RAIN BANDS OF TROPICAL STORM JOAQUIN IN THE SW N ATLC CONTINUE TO SUPPORT CLOUDINESS ACROSS THE ISLAND WITH POSSIBLE ISOLATED SHOWERS OVER THE W AND CENTRAL HISPANIOLA THIS MORNING. SCATTERED SHOWERS AND ISOLATED TSTMS ARE ALONG THE NORTHERN COAST OF THE ISLAND AND OVER THE EASTERN DOMINICAN REPUBLIC. INTERMITTENT SHOWERS ARE EXPECTED TO CONTINUE THROUGH LATE THURSDAY AS JOAQUIN INTENSIFY INTO A HURRICANE AND MOVES WSW TOWARDS THE BAHAMAS BEFORE TAKING A NORTHWARD TURN FRIDAY.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLC IS TROPICAL STORM JOAQUIN THAT IS EXPECTED TO BECOME A HURRICANE TODAY. SEE SPECIAL FEATURES. AHEAD OF JOAQUIN...REMNANTS OF A FORMER TROUGH ENHANCES SCATTERED MODERATE CONVECTION FROM 27N TO 30N BETWEEN 77W AND 79W. TO THE EAST OF JOAQUIN...A LARGE AREA OF DISTURBED WEATHER IS IN THE CENTRAL ATLC ASSOCIATED WITH A FRONTAL TROUGH AND THE REMNANTS OF IDA. THE CENTER OF THIS DISTURBANCE IS A 1009 MB LOW NEAR 24N57W FROM WHICH A TROUGH EXTENDS TO 22N51W. SCATTERED MODERATE CONVECTION AND TSTMS ARE FROM 23N TO 30N BETWEEN 50W AND 63W. A BROAD UPPER TROUGH OVER THE CENTRAL N ATLC SUPPORTS A COLD FRONT ALONG 30N24W TO 28N29W WHERE IT TRANSITIONS INTO A STATIONARY FRONT TO 23N40W TO 24N48W. SCATTERED MODERATE CONVECTION IS WITHIN 120 NM N OF THE FRONTAL BOUNDARY.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

WTNT31 KNHC 301139
TCPAT1

BULLETIN

HURRICANE JOAQUIN INTERMEDIATE ADVISORY NUMBER 10A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
800 AM EDT WED SEP 30 2015

...JOAQUIN BECOMES A HURRICANE...

SUMMARY OF 800 AM EDT...1200 UTC...INFORMATION

LOCATION...24.9N 72.2W
ABOUT 245 MI...395 KM ENE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...75 MPH...120 KM/H
PRESENT MOVEMENT...SW OR 235 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...971 MB...28.67 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

* Central Bahamas including Cat Island, the Exumas, Long Island, Rum Cay, and San Salvador.

A Hurricane Watch is in effect for...

* Northwestern Bahamas including the Abacos, Berry Islands, Bimini, Eleuthera, Grand Bahama Island, and New Providence, but excluding Andros Island

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical storm force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area, in this case within the next 36 to 48 hours.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 800 AM EDT (1200 UTC), the center of Hurricane Joaquin was located near latitude 24.9 North, longitude 72.2 West. Joaquin is moving toward the southwest near 6 mph (9 km/h). A general motion toward the west-southwest or southwest is expected to continue through tonight. A turn toward the west and a decrease in forward speed are forecast on Thursday. On the forecast track, the center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday.

Reports from an Air Force Reserve Hurricane Hunter aircraft indicate that maximum sustained winds have increased to near 75 mph (120 km/h) with higher gusts. Additional strengthening is forecast during the next 48 hours.

Hurricane force winds extend outward up to 30 miles (50 km) from the center. Tropical storm force winds extend outward up to 125 miles (205 km) from the center.

The minimum central pressure estimated from the Hurricane Hunter aircraft data is 971 mb (28.67 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the Central Bahamas by midday Thursday. Winds are expected to first reach tropical storm strength in the warning area tonight, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 2 to 4 feet above normal tide levels in areas of onshore flow. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce 5 to 10 inches of rain with isolated maximum amounts of 15 inches possible over San Salvador and Rum Cay through Friday morning. Rainfall amounts of 3 to 5 inches are possible over the remainder of the central Bahamas

through Friday morning, with 2 to 4 inches expected over the northwestern and southeastern Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the east coast of Florida and the southeast coast of the United States by Friday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 1100 AM EDT.

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Forecaster Beven

AXNT20 KNHC 301212
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT WED SEP 30 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1030 UTC.

...SPECIAL FEATURES...

TROPICAL STORM JOAQUIN IS CENTERED NEAR 25.4N 72.5W AT 30/0900 UTC OR ABOUT 210 NM ENE OF THE CENTRAL BAHAMAS MOVING WSW AT 5 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 988 MB. MAXIMUM SUSTAINED WIND SPEED IS 60 KT WITH GUSTS TO 75 KT. NUMEROUS MODERATE/ISOLATED STRONG CONVECTION AND ISOLATED TSTMS ARE FROM 22N TO 28N BETWEEN 69W AND 75W AND FROM 19N TO 23N BETWEEN 68W AND 73W. JOAQUIN IS EXPECTED TO BECOME A HURRICANE TODAY. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A LARGE AREA OF CLOUDINESS CONTINUES OVER THE CENTRAL ATLANTIC ASSOCIATED WITH A 1009 MB SURFACE LOW...REMNANTS OF IDA...CENTERED NEAR 25N58W AND ITS ASSOCIATED FRONTAL TROUGH EXTENDING FROM THE LOW TO 23N52W. THIS SYSTEM HAS BECOME A BETTER ORGANIZED SINCE YESTERDAY AND ADDITIONAL DEVELOPMENT IS EXPECTED DURING THE NEXT SEVERAL DAYS WHILE IT MOVES NW. SCATTERED MODERATE CONVECTION IS OBSERVED FROM 24N-30N BETWEEN 46W-63W. THE CHANCE OF FORMATION OVER THE NEXT 48 HOURS IS MEDIUM.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC NEAR THE CAPE VERDE ISLANDS WITH TILTED AXIS EXTENDING FROM 16N21W SW TO A 1009 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 11N23W...MOVING W AT 5 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM

THE SURFACE TO 850 MB THAT ALONG WITH MIDDLE TO UPPER LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORT SCATTERED TO ISOLATED MODERATE CONVECTION FROM 06N TO 16N E OF 31W.

A TROPICAL WAVE IS IN THE CENTRAL ATLC WITH TILTED AXIS EXTENDING FROM 16N36W SW TO A 1009 MB LOW PRESSURE CENTER EMBEDDED IN THE MONSOON TROUGH NEAR 11N39W...MOVING W AT 5-10 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB. HOWEVER...SOME DRY AIR INTRUSION IS ALSO DEPICTED IN THE N-NW WAVE ENVIRONMENT...WHERE METEOSAT ENHANCED IMAGERY SHOW DRY AIR AND DUST. SCATTERED MODERATE CONVECTION IS FROM 07N TO 10N BETWEEN 36W AND 44W.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF SENEGAL NEAR 14N16W SW TO A 1009 MB LOW NEAR 11N23W TO 11N33W TO A 1009 MB LOW NEAR 11N39W TO 09N47W. THE INTERTROPICAL CONVERGENCE ZONE AXIS EXTENDS FROM 09N47W TO 09N60W. FOR CONVECTION INFORMATION SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

SOUTHWESTERLY FLOW CONTINUE TO DOMINATE THE GULF WATERS BETWEEN A MIDDLE TO UPPER LEVEL TROUGH EXTENDING FROM OVER THE MID-MISSISSIPPI RIVER VALLEY SW TO A BASE OVER NE MEXICO AND AN ELONGATED MIDDLE TO UPPER LEVEL RIDGE ANCHORED OVER THE YUCATAN CHANNEL. AT THE SURFACE...LOW PRESSURE PREVAILS...EXCEPT IN THE SW BASIN WHERE A WEAK 1012 MB HIGH PRESSURE CENTER IS BEING ANALYZED. A 1009 MB LOW IS IN THE NW GULF NEAR 26N93W WITH ASSOCIATED TROUGH EXTENDING NE TO 28N90W. DRY AIR AND STRONG DEEP LAYER WIND SHEAR INHIBIT CONVECTION NEAR THE LOW. FINALLY...A SURFACE TROUGH CONTINUES OVER THE YUCATAN PENINSULA WITH AXIS EXTENDING NE ACROSS THE SE GULF TO 23N85W. MODERATE MOIST LOW LEVEL ENVIRONMENT ENHANCES SCATTERED TO ISOLATED SHOWERS AND TSTMS S OF 25N BETWEEN 85W AND 90W. LOOKING AHEAD...A COLD FRONT IS FORECAST TO FORM AND MOVE ACROSS THE GULF LATE THURSDAY INTO FRIDAY INTRODUCING MODERATE TO FRESH NORTH-NORTHEASTERLY WINDS THROUGH SATURDAY.

CARIBBEAN SEA...

NORTHEASTERLY FLOW PREVAILS OVER MUCH OF THE CENTRAL AND WESTERN

CARIBBEAN AND PROVIDES OVERALL STABLE CONDITIONS AND FAIR WEATHER. HOWEVER...ONE EXCEPTION LIES ACROSS THE FAR NW CARIBBEAN WHERE UPPER LEVEL DIFFLUENCE ALONG WITH A LOW LEVEL MOIST ENVIRONMENT SUPPORT ISOLATED SHOWERS W OF 85W. ANOTHER AREA OF ONGOING CONVECTION IS OCCURRING IN THE SW BASIN IN ASSOCIATION WITH CLOSE PROXIMITY OF THE MONSOON TROUGH ANALYZED JUST S OF 10N FROM COSTA RICA TO NORTHERN COLOMBIA OFFSHORE WATERS. CLOUDINESS AND SCATTERED/ISOLATED SHOWERS CONTINUES OVER HISPANIOLA BEING SUPPORTED BY THE OUTER RAIN BANDS OF TROPICAL STORM JOAQUIN IN THE SW N ATLC. OTHERWISE...MOSTLY CLEAR SKIES PREVAIL ELSEWHERE SUPPORTED BY DRY AIR SUBSIDENCE FROM ALOFT AS SHOWN BY WATER VAPOR IMAGERY. MAINLY MODERATE TO FRESH TRADES PERSIST WITH THE STRONGEST WINDS NOTED ACROSS SOUTH-CENTRAL PORTIONS.

...HISPANIOLA...

THE OUTER CLOUD/RAIN BANDS OF TROPICAL STORM JOAQUIN IN THE SW N ATLC CONTINUE TO SUPPORT CLOUDINESS ACROSS THE ISLAND WITH POSSIBLE ISOLATED SHOWERS OVER THE W AND CENTRAL HISPANIOLA THIS MORNING. SCATTERED SHOWERS AND ISOLATED TSTMS ARE ALONG THE NORTHERN COAST OF THE ISLAND AND OVER THE EASTERN DOMINICAN REPUBLIC. INTERMITTENT SHOWERS ARE EXPECTED TO CONTINUE THROUGH LATE THURSDAY AS JOAQUIN INTENSIFY INTO A HURRICANE AND MOVES WSW TOWARDS THE BAHAMAS BEFORE TAKING A NORTHWARD TURN FRIDAY.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLC IS TROPICAL STORM JOAQUIN THAT IS EXPECTED TO BECOME A HURRICANE TODAY. SEE SPECIAL FEATURES. AHEAD OF JOAQUIN...REMNANTS OF A FORMER TROUGH ENHANCES SCATTERED MODERATE CONVECTION FROM 27N TO 30N BETWEEN 77W AND 79W. TO THE EAST OF JOAQUIN...A LARGE AREA OF DISTURBED WEATHER IS IN THE CENTRAL ATLC ASSOCIATED WITH A FRONTAL TROUGH AND THE REMNANTS OF IDA. PLEASE SEE THE SPECIAL FEATURES SECTION FOR MORE DETAILS. A BROAD UPPER TROUGH OVER THE CENTRAL N ATLC SUPPORTS A COLD FRONT ALONG 30N24W TO 28N29W WHERE IT TRANSITIONS INTO A STATIONARY FRONT TO 23N40W TO 24N48W. SCATTERED MODERATE CONVECTION IS WITHIN 120 NM N OF THE FRONTAL BOUNDARY.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR/ERA

WTNT31 KNHC 301453
TCPAT1

BULLETIN
HURRICANE JOAQUIN ADVISORY NUMBER 11
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 AM EDT WED SEP 30 2015

...JOAQUIN STRENGTHENS SOME MORE AS IT MOVES SOUTHWESTWARD
TOWARD
THE CENTRAL BAHAMAS...

SUMMARY OF 1100 AM EDT...1500 UTC...INFORMATION

LOCATION...24.7N 72.6W
ABOUT 215 MI...345 KM ENE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...80 MPH...130 KM/H
PRESENT MOVEMENT...SW OR 230 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...971 MB...28.68 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...
* Central Bahamas including Cat Island, the Exumas, Long Island,
Rum Cay, and San Salvador.

A Hurricane Watch is in effect for...
* Northwestern Bahamas including the Abacos, Berry Islands, Bimini,
Eleuthera, Grand Bahama Island, and New Providence, but excluding
Andros Island

A Hurricane Warning means that hurricane conditions are expected
somewhere within the warning area. Preparations to protect life and
property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible
within the watch area.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 AM EDT (1500 UTC), the center of Hurricane Joaquin was located near latitude 24.7 North, longitude 72.6 West. Joaquin is moving toward the southwest near 6 mph (9 km/h). A general motion toward the west-southwest or southwest is expected to continue through tonight. A turn toward the northwest and a decrease in forward speed are forecast Thursday or Thursday night. The center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday.

Reports from an Air Force Reserve Hurricane aircraft indicate that maximum sustained winds have increased to near 80 mph (130 km/h) with higher gusts. Additional strengthening is expected, and Joaquin could become a major hurricane during the next couple of days.

Hurricane force winds extend outward up to 35 miles (55 km) from the center and tropical storm force winds extend outward up to 125 miles (205 km).

The minimum central pressure estimated from the Hurricane Hunter aircraft data is 971 mb (28.67 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the Central Bahamas by Thursday morning. Winds are expected to first reach tropical storm strength in the warning area tonight, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion. Tropical storm conditions are possible in the southeastern Bahamas beginning tonight. Hurricane conditions could reach the northwestern Bahamas early on Friday.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 2 to 4 feet above normal tide levels in areas of onshore flow. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce 5 to 10 inches of rain

over much of the central Bahamas, with isolated maximum amounts of 20 inches possible over San Salvador and Rum Cay through Friday night. Rainfall amounts of 3 to 5 inches are possible over the southeastern Bahamas through Friday night, with 2 to 4 inches expected over the northwestern Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States by Thursday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 200 PM EDT.

Next complete advisory at 500 PM EDT.

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Forecaster Beven

WTNT21 KNHC 301453
TCMAT1

HURRICANE JOAQUIN FORECAST/ADVISORY NUMBER 11
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1500 UTC WED SEP 30 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

* CENTRAL BAHAMAS INCLUDING CAT ISLAND...THE EXUMAS...LONG ISLAND,
RUM CAY...AND SAN SALVADOR.

A HURRICANE WATCH IS IN EFFECT FOR...

* NORTHWESTERN BAHAMAS INCLUDING THE ABACOS...BERRY
ISLANDS...BIMINI,
ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE...BUT
EXCLUDING
ANDROS ISLAND

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA. PREPARATIONS TO PROTECT LIFE
AND
PROPERTY SHOULD BE RUSHED TO COMPLETION.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE
WITHIN THE WATCH AREA.

HURRICANE CENTER LOCATED NEAR 24.7N 72.6W AT 30/1500Z
POSITION ACCURATE WITHIN 25 NM

PRESENT MOVEMENT TOWARD THE SOUTHWEST OR 230 DEGREES AT 5 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 971 MB

EYE DIAMETER 50 NM

MAX SUSTAINED WINDS 70 KT WITH GUSTS TO 85 KT.

64 KT..... 30NE 30SE 20SW 20NW.

50 KT..... 40NE 50SE 30SW 30NW.

34 KT.....100NE 110SE 60SW 60NW.

12 FT SEAS..160NE 100SE 90SW 130NW.

WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 24.7N 72.6W AT 30/1500Z
AT 30/1200Z CENTER WAS LOCATED NEAR 24.8N 72.3W

FORECAST VALID 01/0000Z 24.3N 73.2W
MAX WIND 80 KT...GUSTS 100 KT.
64 KT... 30NE 30SE 20SW 20NW.
50 KT... 50NE 50SE 30SW 30NW.
34 KT...100NE 110SE 60SW 70NW.

FORECAST VALID 01/1200Z 24.1N 74.0W
MAX WIND 85 KT...GUSTS 105 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 60NE 60SE 40SW 50NW.
34 KT...120NE 120SE 70SW 80NW.

FORECAST VALID 02/0000Z 24.4N 74.4W
MAX WIND 90 KT...GUSTS 110 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 70NE 70SE 40SW 50NW.
34 KT...130NE 130SE 80SW 100NW.

FORECAST VALID 02/1200Z 25.3N 74.5W
MAX WIND 95 KT...GUSTS 115 KT.
50 KT... 70NE 70SE 50SW 50NW.
34 KT...150NE 150SE 90SW 120NW.

FORECAST VALID 03/1200Z 28.5N 73.5W
MAX WIND 100 KT...GUSTS 120 KT.
50 KT... 80NE 80SE 60SW 70NW.
34 KT...150NE 150SE 90SW 120NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 04/1200Z 34.0N 73.0W
MAX WIND 90 KT...GUSTS 110 KT.

OUTLOOK VALID 05/1200Z 38.5N 74.0W
MAX WIND 75 KT...GUSTS 90 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 24.7N 72.6W

NEXT ADVISORY AT 30/2100Z

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FORECASTER BEVEN

FKNT21 KNHC 301454
TCANT1

HURRICANE JOAQUIN ICAO ADVISORY NUMBER 11
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1500 UTC WED SEP 30 2015

TC ADVISORY

DTG: 20150930/1500Z
TCAC: KNHC
TC: JOAQUIN
NR: 011
PSN: N2442 W07236
MOV: SW 05KT
C: 0971HPA
MAX WIND: 070KT
FCST PSN + 06 HR: 302100 N2426 W07300
FCST MAX WIND + 06 HR: 075KT
FCST PSN + 12 HR: 010300 N2415 W07323
FCST MAX WIND + 12 HR: 080KT
FCST PSN + 18 HR: 010900 N2409 W07348
FCST MAX WIND + 18 HR: 085KT
FCST PSN + 24 HR: 011500 N2410 W07406
FCST MAX WIND + 24 HR: 085KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20150930/2100Z

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WTNT41 KNHC 301458
TCDAT1

HURRICANE JOAQUIN DISCUSSION NUMBER 11
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 AM EDT WED SEP 30 2015

Joaquin has continued to strengthen overnight. Satellite imagery shows that the convection has become more symmetric, and recent visible images show what might be an eye trying to form. An Air Force Reserve Hurricane Hunter aircraft reported 700-mb flight-level winds of 83 kt and estimated 70 kt surface winds from the Stepped Frequency Microwave Radiometer, with a central pressure of 971 mb estimated from the aircraft data. Based on these, the initial intensity is increased to 70 kt.

Joaquin has moved a little south of the previous track with an initial motion of 230/5. The shortwave ridge causing this motion is expected to weaken during the next 24-48 hours as a strong deep-layer trough develops over the southeastern United States. This is expected to cause the hurricane to turn northward by 72 hours. There is disagreement in the track guidance between the ECMWF and the other dynamical models. The majority of the guidance forecasts Joaquin to turn west of north after 48-72 hours, with the storm moving inland over the mid-Atlantic states and merging with the trough. On the other hand, the ECMWF forecast the hurricane to move out to sea between North America and Bermuda. The ECMWF forecasts Joaquin to move more to the south during the first 24-48 hours than the other models. In addition, it shows the hurricane interacting with an upper-level low to its northeast that results in a more eastward motion after 48 hours. The new forecast track, which is similar to the previous track, leans more toward the non-ECMWF guidance. However, out of deference to the ECMWF, it lies to the east of the center of the guidance envelope and the consensus models. The NOAA G-IV jet is scheduled to fly a synoptic surveillance mission this afternoon, which, along with special rawinsonde launches over the eastern U. S., hopefully will reduce the spread of the guidance.

Joaquin is expected to remain in an environment of moderate northeasterly vertical shear for the next 24-36 hours. However, since it has been steadily strengthening in such an environment, there is no obvious reason to think it will stop doing so. After 36 hours, the hurricane is likely to move into an area of divergent southerly upper-level winds associated with the eastern U. S. trough. While there is uncertainty as to how much shear should

occur, it is expected that additional intensification could occur through 72 hours. Based on this, the intensity forecast calls for Joaquin to peak as a major hurricane in about 72 hours, and it is possible it could be stronger than currently forecast. After 72 hours, increasing shear and cold air intrusion should cause weakening and the start of extratropical transition.

KEY MESSAGES:

1. Confidence in the details of the track forecast late in the period remains low, since the environmental steering currents are complex and the model guidance is inconsistent. A wide range of outcomes is possible, from a direct impact of a major hurricane along the U.S. east coast to a track of Joaquin out to sea away from the coast. It is therefore way too soon to talk about specific wind, rain, or surge impacts from Joaquin in the U.S.
2. Should the threat to the U.S. increase, any further adjustments of the forecast to the west would likely be accompanied by an increase in the forecast forward speed, with impacts along the coast occurring sooner than currently forecast. A hurricane watch could be required for portions of the U.S. coast as early as Thursday evening.
3. Many areas of the eastern U.S. are currently experiencing heavy rains and gusty winds associated with a frontal system. This inclement weather is expected to continue over the next few days, which could complicate preparations for Joaquin should it head toward the coast.

FORECAST POSITIONS AND MAX WINDS

INIT	30/1500Z	24.7N	72.6W	70 KT	80 MPH
12H	01/0000Z	24.3N	73.2W	80 KT	90 MPH
24H	01/1200Z	24.1N	74.0W	85 KT	100 MPH
36H	02/0000Z	24.4N	74.4W	90 KT	105 MPH
48H	02/1200Z	25.3N	74.5W	95 KT	110 MPH
72H	03/1200Z	28.5N	73.5W	100 KT	115 MPH
96H	04/1200Z	34.0N	73.0W	90 KT	105 MPH
120H	05/1200Z	38.5N	74.0W	75 KT	85 MPH

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Forecaster Beven

FZNT23 KNHC 301548
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1145 AM EDT WED SEP 30 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-010345-
BAHAMAS INCLUDING CAY SAL BANK-
1145 AM EDT WED SEP 30 2015

..HURRICANE WARNING...

.THIS AFTERNOON...TROPICAL STORM CONDITIONS POSSIBLE. W TO NW
WINDS 15 TO 20 KT...INCREASING TO 20 TO 25 KT IN THE AFTERNOON.
SEAS 9 TO 11 FT ATLC EXPOSURES...AND 4 TO 5 FT ELSEWHERE.
SCATTERED SHOWERS AND ISOLATED TSTMS E OF 77W.
.TONIGHT...TROPICAL STORM CONDITIONS EXPECTED. ATLC EXPOSURES...
W TO NW WINDS 30 TO 35 KT...INCREASING TO 65 TO 75 KT LATE.
ELSEWHERE...W TO NW WINDS 15 TO 20 KT. SEAS 13 TO 14 FT ATLC
EXPOSURES... AND 6 FT ELSEWHERE. SCATTERED SHOWERS AND TSTMS.
.THU...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... W TO NW
WINDS 65 TO 80 KT. ELSEWHERE...W TO NW WINDS 25 TO 30 KT...
INCREASING TO 35 TO 40 KT IN THE AFTERNOON. SEAS 17 TO 18 FT
ATLC EXPOSURES...AND 6 FT ELSEWHERE. SCATTERED TSTMS.
.THU NIGHT...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES...W
TO NW WINDS 70 TO 80 KT. SEAS 20 FT. ELSEWHERE...W TO NW WINDS
40 TO 45 KT. SEAS 5 TO 7 FT. SCATTERED SHOWERS AND ISOLATED
TSTMS. VSBY 1 NM OR LESS.
.FRI...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES... W WINDS
65 TO 80 KT. SEAS 15 TO 16 FT. ELSEWHERE...W TO NW WINDS 30 TO
40 KT. SEAS 5 TO 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
VSBY 1 NM OR LESS.
.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. SCATTERED
SHOWERS AND ISOLATED TSTMS.
.SAT...W WINDS 15 TO 20 KT. SEAS 8 TO 10 FT IN MIXED SW AND NW
SWELL ATLC EXPOSURES...AND 4 TO 6 FT ELSEWHERE.

.SAT NIGHT...W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT LATE. SEAS 7 TO 9 FT IN MIXED SW AND NW SWELL ATLC EXPOSURES... AND 3 TO 5 FT ELSEWHERE.

.SUN...W WINDS 10 TO 15 KT. SEAS 6 TO 8 FT PRIMARILY IN NE SWELL ATLC EXPOSURES...AND 3 TO 5 FT ELSEWHERE.

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AMZ119-010345-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1145 AM EDT WED SEP 30 2015

...HURRICANE WARNING...

.THIS AFTERNOON...HURRICANE CONDITIONS. SW TO W WINDS 25 TO 30 KT...INCREASING TO 60 TO 70 KT IN THE AFTERNOON. SEAS 18 TO 22 FT N OF 25N...AND 12 TO 14 FT ELSEWHERE. NUMEROUS SQUALLS AND TSTMS.

.TONIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N...NE TO E WINDS 60 TO 70 KT...BECOMING E 45 TO 55 KT LATE. ELSEWHERE...S TO SW WINDS 65 TO 75 KT. SEAS 21 TO 22 FT. NUMEROUS SQUALLS AND TSTMS. VSBY 1 NM OR LESS.

.THU...HURRICANE CONDITIONS EXPECTED. E TO SE WINDS 45 TO 60 KT N OF 25N...AND S TO SW 70 TO 80 KT ELSEWHERE. SEAS 19 TO 22 FT. NUMEROUS SQUALLS AND TSTMS. VSBY 1 NM OR LESS.

.THU NIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N...E TO SE WINDS 65 TO 85 KT. SEAS 24 TO 28 FT. ELSEWHERE...S TO SW WINDS 70 TO 85 KT. SEAS 17 TO 19 FT. NUMEROUS SHOWERS AND TSTMS. VSBY 1 NM OR LESS.

.FRI...HURRICANE CONDITIONS POSSIBLE. S WINDS 75 TO 85 KT. SEAS 28 FT N OF 25N...AND 15 TO 17 FT ELSEWHERE. VSBY 1 NM OR LESS.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE.

.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT NIGHT...SW TO W WINDS 20 TO 25 KT...DIMINISHING TO 15 TO 20 KT LATE. SEAS 9 TO 10 FT.

.SUN...SW TO W WINDS 10 TO 15 KT. SEAS 7 TO 8 FT.

FZNT23 KNHC 301555 CCA
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA...CORRECTED AMZ117
NWS NATIONAL HURRICANE CENTER MIAMI FL
1145 AM EDT WED SEP 30 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-010345-
BAHAMAS INCLUDING CAY SAL BANK-
1145 AM EDT WED SEP 30 2015

...HURRICANE WARNING...

.THIS AFTERNOON...TROPICAL STORM CONDITIONS POSSIBLE. W TO NW
WINDS 20 TO 25 KT. SEAS 9 TO 11 IN NE SWELL FT ATLC
EXPOSURES...AND 4 TO 5 FT ELSEWHERE. SCATTERED SHOWERS AND
ISOLATED TSTMS.

.TONIGHT...TROPICAL STORM CONDITIONS EXPECTED. ATLC EXPOSURES...
W TO NW WINDS 30 TO 35 KT...INCREASING TO 65 TO 75 KT LATE.
ELSEWHERE...W TO NW WINDS 15 TO 20 KT. SEAS 13 TO 14 FT ATLC
EXPOSURES...AND 6 FT ELSEWHERE. SCATTERED SHOWERS AND TSTMS.

.THU...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... W TO NW
WINDS 65 TO 80 KT. ELSEWHERE...W TO NW WINDS 25 TO 30 KT...
INCREASING TO 35 TO 40 KT IN THE AFTERNOON. SEAS 17 TO 18 FT
ATLC EXPOSURES...AND 6 FT ELSEWHERE. SCATTERED TSTMS.

.THU NIGHT...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES...W
TO NW WINDS 70 TO 80 KT. SEAS 16 TO 20 FT. ELSEWHERE...W TO NW
WINDS 40 TO 45 KT. SEAS 5 TO 7 FT. SCATTERED SHOWERS AND
ISOLATED TSTMS. VSBY 1 NM OR LESS.

.FRI...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES...W WINDS
65 TO 80 KT. SEAS 15 TO 16 FT. ELSEWHERE...W TO NW WINDS 30 TO
40 KT. SEAS 5 TO 7 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.
VSBY 1 NM OR LESS.

.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. SCATTERED
SHOWERS AND ISOLATED TSTMS.

.SAT...W WINDS 15 TO 20 KT. SEAS 8 TO 10 FT IN MIXED SW AND NW
SWELL ATLC EXPOSURES...AND 4 TO 6 FT ELSEWHERE.

.SAT NIGHT...W WINDS 15 TO 20 KT...DIMINISHING TO 10 TO 15 KT LATE. SEAS 7 TO 9 FT IN MIXED SW AND NW SWELL ATLC EXPOSURES... AND 3 TO 5 FT ELSEWHERE.

.SUN...W WINDS 10 TO 15 KT. SEAS 6 TO 8 FT PRIMARILY IN NE SWELL ATLC EXPOSURES...AND 3 TO 5 FT ELSEWHERE.

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AMZ119-010345-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1145 AM EDT WED SEP 30 2015

...HURRICANE WARNING...

.THIS AFTERNOON...HURRICANE CONDITIONS. SW TO W WINDS 25 TO 30 KT...INCREASING TO 60 TO 70 KT IN THE AFTERNOON. SEAS 18 TO 22 FT N OF 25N...AND 12 TO 14 FT ELSEWHERE. NUMEROUS SQUALLS AND TSTMS.

.TONIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N...NE TO E WINDS 60 TO 70 KT...BECOMING E 45 TO 55 KT LATE. ELSEWHERE...S TO SW WINDS 65 TO 75 KT. SEAS 21 TO 22 FT. NUMEROUS SQUALLS AND TSTMS. VSBY 1 NM OR LESS.

.THU...HURRICANE CONDITIONS EXPECTED. E TO SE WINDS 45 TO 60 KT N OF 25N...AND S TO SW 70 TO 80 KT ELSEWHERE. SEAS 19 TO 22 FT. NUMEROUS SQUALLS AND TSTMS. VSBY 1 NM OR LESS.

.THU NIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N...E TO SE WINDS 65 TO 85 KT. SEAS 24 TO 28 FT. ELSEWHERE...S TO SW WINDS 70 TO 85 KT. SEAS 17 TO 19 FT. NUMEROUS SHOWERS AND TSTMS. VSBY 1 NM OR LESS.

.FRI...HURRICANE CONDITIONS POSSIBLE. S WINDS 75 TO 85 KT. SEAS 28 FT N OF 25N...AND 15 TO 17 FT ELSEWHERE. VSBY 1 NM OR LESS.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE.

.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT NIGHT...SW TO W WINDS 20 TO 25 KT...DIMINISHING TO 15 TO 20 KT LATE. SEAS 9 TO 10 FT.

.SUN...SW TO W WINDS 10 TO 15 KT. SEAS 7 TO 8 FT.

FZNT02 KNHC 301606
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1630 UTC WED SEP 30 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1200 UTC WED SEP 30.
24 HOUR FORECAST VALID 1200 UTC THU OCT 01.
48 HOUR FORECAST VALID 1200 UTC FRI OCT 02.

.WARNINGS.

...ATLC HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 24.7N 72.6W 971 MB AT 1500 UTC SEP 30 MOVING SW OR 230 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 70 KT GUSTS 85 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM W SEMICIRCLE...100 NM NE QUADRANT AND 110 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 160 NM NE QUADRANT...100 NM SE QUADRANT... ..90 NM SW QUADRANT...AND 130 NM NW QUADRANT WITH SEAS TO 25 FT. ELSEWHERE WITHIN 210 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 9 TO 12 FT. REMAINDER OF AREA N OF 24N BETWEEN 66W AND 79W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.1N 74.0W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT. TROPICAL STORM FORCE WINDS WITHIN 120 NM E SEMICIRCLE...70 NM SW QUADRANT AND 80 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 90 NM S SEMICIRCLES WITH SEAS TO 28 FT. ELSEWHERE WITHIN 300 NM NE AND 120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 68W AND 79W AND OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.3N 74.5W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT. TROPICAL STORM FORCE WINDS WITHIN 150 NM E SEMICIRCLE...90 NM SW QUADRANT AND 120 NM NW

QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 120 NM S SEMICIRCLES WITH SEAS TO 34 FT NE OF BAHAMAS. ELSEWHERE WITHIN 360 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 68W AND 80W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.
.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 28.5N 73.5W. MAXIMUM SUSTAINED WINDS 100 KT GUSTS 120 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 34.0N 73.0W. MAXIMUM SUSTAINED WINDS 90 KT GUSTS 110 KT.
.120 HOUR FORECAST HURRICANE JOAQUIN NEAR 38.5N 74.0W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC STATIONARY FRONT FROM 27N35W TO 23N44W TO 24N48W. TROUGH FROM 24N48W TO LOW PRES NEAR 25N57W 1009 MB TO 26N62W. N OF FRONT W OF 46W NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 13 FT. WITHIN 60 NM OF LOW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF TROUGH E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN E SWELL. ELSEWHERE N OF A LINE FROM 23N35W TO 22N45W TO 25N55W TO 26N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.
.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 26N58W 1007 MB THEN TROUGH TO 29N65W. WITHIN 120 NM N AND 60 NM S SEMICIRCLES OF LOW WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF FRONT AND TROUGH BETWEEN 52W AND 61W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. N OF TROUGH BETWEEN 61W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.
.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 27N56W 1004 MB. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 11 FT. WITHIN 180 NM SE QUADRANT OF LOW S TO SW WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER AGUIRRE. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 301611

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1630 UTC WED SEP 30 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 1200 UTC SEP 30

24 HOUR FORECAST VALID 1200 UTC OCT 01

48 HOUR FORECAST VALID 1200 UTC OCT 02

.WARNINGS.

...GALE WARNING...

.LOW INLAND 42N74W 1003 MB MOVING NE 25 KT. OVER FORECAST WATERS WITHIN 540 NM SE QUADRANT WINDS 20 TO 30 KT. SEAS TO 11 FT.

.06 HOUR FORECAST LOW 43N71W 1005 MB. WITHIN 180 NM SE QUADRANT WINDS 25 TO 35 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW 48N61W 1010 MB. WITHIN 180 NM NW SEMICIRCLE AND 120 NM SE QUADRANT WINDS 30 TO 40 KT. SEAS 8 TO 14 FT. ELSEWHERE WITHIN 780 NM SW QUADRANT WINDS 20 TO 30 KT. SEAS TO 11 FT.

.48 HOUR FORECAST LOW 51N50W 1009 MB. WITHIN 240 NM NW SEMICIRCLE WINDS 30 TO 40 KT. SEAS 8 TO 16 FT. ELSEWHERE WITHIN 360 NM NW SEMICIRCLE AND 240 NM SE QUADRANT WINDS 20 TO 30 KT. SEAS TO 10 FT.

...GALE WARNING...

.18 HOUR FORECAST NEW LOW 64N38W 1004 MB. FROM 59N TO 61N BETWEEN 38W AND 43W WINDS 25 TO 35 KT. SEAS TO 11 FT.

.24 HOUR FORECAST LOW 65N36W 1006 MB. FROM 59N TO 61N BETWEEN 35W AND 43W WINDS 25 TO 35 KT. SEAS 9 TO 13 FT. ELSEWHERE WITHIN 420 NM SW QUADRANT WINDS TO 25 KT. SEAS TO 9 FT.

.48 HOUR FORECAST LOW 65N35W 1015 MB. WITHIN 180 NM SW QUADRANT WINDS TO 25 KT. SEAS TO 8 FT.

...GALE WARNING...

.36 HOUR FORECAST OVER FORECAST WATERS W OF A LINE FROM 45N62W TO 37N74W WINDS 25 TO 35 KT. SEAS 8 TO 14 FT.

.48 HOUR FORECAST W OF A LINE FROM 45N61W TO 37N74W WINDS 30 TO 40 KT. SEAS 9 TO 17 FT. ELSEWHERE FROM 46N TO 51N BETWEEN 58W AND 64W WINDS 20 TO 30 KT. SEAS TO 11 FT.

...GALE WARNING...

.48 HOUR FORECAST OVER FORECAST WATERS N AND NW OF A LINE FROM 64N64W TO 64N58W TO 66N53W WINDS 25 TO 35 KT. SEAS TO 11 FT.

.SYNOPSIS AND FORECAST.

.LOW 53N54W 1014 MB MOVING NE 20 KT. WITHIN 180 NM SE SEMICIRCLE WINDS TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST LOW DISSIPATED. CONDITIONS DIMINISHED.

.FROM 31N TO 35N BETWEEN 50W AND 70W AREA OF E TO SE WINDS 20 TO 30 KT. SEAS TO 11 FT.

.24 HOUR FORECAST FROM 31N TO 34N BETWEEN 53W AND 70W E TO SE WINDS TO 25 KT. SEAS TO 11 FT.

.48 HOUR FORECAST FROM 31N TO 34N BETWEEN 65W AND 75W SE WINDS TO 25 KT. SEAS TO 12 FT.

.LOW E OF AREA 40N28W 1002 MB MOVING SW 05 KT. OVER FORECAST WATERS FROM 39N TO 45N E OF 37W WINDS TO 25 KT. SEAS TO 10 FT.

.24 HOUR FORECAST LOW E OF AREA 39N30W 1001 MB. FROM 38N TO 46N E OF 40W WINDS TO 25 KT. SEAS TO 12 FT.

.48 HOUR FORECAST LOW E OF AREA 41N30W 1001 MB. FROM 41N TO 47N E OF 38W WINDS TO 25 KT. SEAS TO 10 FT.

.OVER FORECAST WATERS FROM 54N TO 61N E OF 40W AREA OF SW WINDS 20 TO 30 KT. SEAS TO 10 FT.

.24 HOUR FORECAST CONDITIONS E OF FORECAST AREA.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS WITHIN 240 NM SE OF A LINE FROM 55N44W TO 61N35W...180 NM E OF ANOTHER LINE FROM 52N54W TO 46N50W...AND WITHIN 60 NM OF 43N68W.

.24 HOUR FORECAST DENSE FOG WITHIN 120 NM OF 49N49W.

.48 HOUR FORECAST DENSE FOG FROM 48N TO 53N BETWEEN 46W AND 50W.

.HIGH 43N51W 1028 MB MOVING N 05 KT WILL MOVE S AFTER 24 HOURS.

.24 HOUR FORECAST HIGH 45N51W 1026 MB.

.48 HOUR FORECAST HIGH 43N50W 1023 MB.

.24 HOUR FORECAST NEW HIGH 56N48W 1029 MB.

.48 HOUR FORECAST HIGH E OF AREA.

.FORECASTER REINHART. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1200 UTC WED SEP 30.

24 HOUR FORECAST VALID 1200 UTC THU OCT 01.

48 HOUR FORECAST VALID 1200 UTC FRI OCT 02.

.WARNINGS.

...ATLC HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 24.7N 72.6W 971 MB AT 1500 UTC SEP 30 MOVING SW OR 230 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 70 KT GUSTS 85 KT. TROPICAL STORM FORCE WINDS WITHIN 60 NM W SEMICIRCLE...100 NM NE QUADRANT AND 110 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 160 NM NE QUADRANT...100 NM SE QUADRANT... ..90 NM SW QUADRANT...AND 130 NM NW QUADRANT WITH SEAS TO 25 FT. ELSEWHERE WITHIN 210 NM NE AND 120 NM SW SEMICIRCLES WINDS

20 TO 33 KT. SEAS 9 TO 12 FT. REMAINDER OF AREA N OF 24N BETWEEN 66W AND 79W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 24.1N 74.0W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT. TROPICAL STORM FORCE WINDS WITHIN 120 NM E SEMICIRCLE...70 NM SW QUADRANT AND 80 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 90 NM S SEMICIRCLES WITH SEAS TO 28 FT. ELSEWHERE WITHIN 300 NM NE AND 120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT.

REMAINDER OF AREA N OF 22N BETWEEN 68W AND 79W AND OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.3N 74.5W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT. TROPICAL STORM FORCE WINDS WITHIN 150 NM E SEMICIRCLE...90 NM SW QUADRANT AND 120 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 120 NM S SEMICIRCLES WITH SEAS TO 34 FT NE OF BAHAMAS. ELSEWHERE WITHIN 360 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 68W AND 80W OUTSIDE THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 28.5N 73.5W. MAXIMUM SUSTAINED WINDS 100 KT GUSTS 120 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 34.0N 73.0W. MAXIMUM SUSTAINED WINDS 90 KT GUSTS 110 KT.

.120 HOUR FORECAST HURRICANE JOAQUIN NEAR 38.5N 74.0W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC STATIONARY FRONT FROM 27N35W TO 23N44W TO 24N48W. TROUGH FROM 24N48W TO LOW PRES NEAR 25N57W 1009 MB TO 26N62W. N OF FRONT W OF 46W NE TO E WINDS 20 TO 30 KT. SEAS 9 TO 13 FT.

WITHIN 60 NM OF LOW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF TROUGH E TO SE WINDS 20 TO 25 KT. SEAS 8 TO 11 FT IN E SWELL.

ELSEWHERE N OF A LINE FROM 23N35W TO 22N45W TO 25N55W TO 26N65W WINDS 20 KT OR LESS SEAS TO 9 FT IN N TO NE SWELL.

.24 HOUR FORECAST WEAKENING STATIONARY FRONT FROM 27N35W TO 24N45W TO LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 26N58W 1007 MB THEN TROUGH TO 29N65W. WITHIN 120 NM N AND 60 NM S SEMICIRCLES OF LOW WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF FRONT AND TROUGH BETWEEN 52W AND 61W E TO SE WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. N OF TROUGH BETWEEN 61W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 27N56W 1004 MB. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT.

SEAS 9 TO 11 FT. WITHIN 180 NM SE QUADRANT OF LOW S TO SW WINDS
20 TO 25 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF 27N BETWEEN 52W AND
65W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN NE SWELL.
.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.
.FORECASTER AGUIRRE. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 301727
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 PM EDT WED SEP 30 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 1200 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1715 UTC.

...SPECIAL FEATURES...

JOAQUIN BECAME A HURRICANE THIS MORNING...CURRENTLY CENTERED NEAR 24.7N 72.6W AS OF 30/1500 UTC OR ABOUT 185 NM ENE OF THE CENTRAL BAHAMAS...MOVING WSW AT 5 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 988 MB. MAXIMUM SUSTAINED WIND SPEED IS 70 KT WITH GUSTS UP TO 85 KT. NUMEROUS MODERATE/ISOLATED STRONG CONVECTION IS FROM 20N-27N BETWEEN 68W-77W. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A LARGE AREA OF CLOUDINESS CONTINUES OVER THE CENTRAL ATLANTIC ASSOCIATED WITH A 1009 MB SURFACE LOW...REMNANTS OF IDA...CENTERED NEAR 25N57W AND ITS ASSOCIATED SURFACE TROUGH EXTENDING FROM 26N62W TO 24N52W. THIS SYSTEM HAS BECOME A BETTER ORGANIZED SINCE YESTERDAY AND ADDITIONAL DEVELOPMENT IS EXPECTED DURING THE NEXT SEVERAL DAYS WHILE IT MOVES NW. SCATTERED MODERATE CONVECTION IS OBSERVED FROM 24N-30N BETWEEN 50W-65W. THE CHANCE OF FORMATION OVER THE NEXT 48 HOURS IS MEDIUM.

...TROPICAL WAVES...

A TROPICAL WAVE IS NEAR THE CAPE VERDE ISLANDS WITH AN AXIS EXTENDING FROM 19N22W TO 12N24W...MOVING W AT 5-10 KT. AN INVERTED V PATTERN IS NOTICED IN VISIBLE IMAGERY. TPW IMAGERY SHOWS THE WAVE EMBEDDED IN A MODERATE TO HIGH MOIST ENVIRONMENT THAT ALONG WITH MID TO UPPER-LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORTS SCATTERED MODERATE CONVECTION FROM 06N-18N AND E OF 31W.

A TROPICAL WAVE IS IN THE CENTRAL ATLANTIC WITH AN AXIS EXTENDING FROM 18N36W TO 11N40W...MOVING W AT 5 KT. THE INVERTED V PATTERN IS ALSO NOTICED WITH THIS WAVE IN VISIBLE IMAGERY. TPW IMAGERY SHOWS THE WAVE EMBEDDED IN A MODERATE MOIST ENVIRONMENT. HOWEVER...DRY AIR INTRUSION IS ALSO DEPICTED IN THE WAVE ENVIRONMENT LIMITING THE CONVECTION TO THE SOUTHERN PORTION OF THE WAVE CLOSE TO THE MONSOON TROUGH S OF 12N.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF AFRICA NEAR 14N17W TO 10N47W. FOR CONVECTION INFORMATION...PLEASE SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

UPPER-LEVEL SW FLOW CONTINUES TO DOMINATE THE GULF WATERS BETWEEN AN UPPER-LEVEL TROUGH EXTENDING FROM OVER THE MID-MISSISSIPPI RIVER VALLEY SW TO A BASE OVER NE MEXICO AND AN ELONGATED UPPER-LEVEL RIDGE ANCHORED OVER THE YUCATAN CHANNEL. AT THE SURFACE...A 1008 MB SURFACE LOW IS LOCATED NEAR 26N93W. A SURFACE TROUGH EXTENDS FROM THE LOW TO 31N85W. ISOLATED CONVECTION IS OBSERVED IN THE VICINITY OF THE TROUGH. A WEAK 1011 MB SURFACE HIGH IS NEAR 22N92W. UPPER-LEVEL DIFFLUENCE IS SUPPORTING CLUSTERS OF MODERATE CONVECTION OVER THE SE GULF FROM 23N-25N BETWEEN 82W-86W. LOOKING AHEAD...A COLD FRONT IS FORECAST TO MOVE ACROSS THE GULF BY THURSDAY/FRIDAY INTRODUCING MODERATE TO FRESH N-NE WINDS ACROSS THE NORTHERN PORTION OF THE BASIN.

CARIBBEAN SEA...

UPPER-LEVEL NE FLOW PREVAILS OVER MUCH OF THE CENTRAL AND WESTERN CARIBBEAN PROVIDING OVERALL STABLE CONDITIONS AND FAIR WEATHER ACROSS MOST OF THE BASIN. THE ONLY AREA WITH ISOLATED CONVECTION IS THE S-CENTRAL PORTION...WHERE THE PROXIMITY OF THE MONSOON TROUGH IS ENHANCING THIS CONVECTION MAINLY S OF 10N BETWEEN 77W-82W. CLOUDINESS AND SCATTERED CONVECTION PREVAILS OVER HISPANIOLA SUPPORTED BY THE OUTER RAIN BANDS OF HURRICANE JOAQUIN CURRENTLY IN THE SW ATLANTIC. SCATTEROMETER DATA DEPICTS MODERATE TO FRESH TRADES ACROSS THE BASIN WITH THE STRONGEST WINDS NOTED ACROSS S-CENTRAL PORTION.

...HISPANIOLA...

THE OUTER RAINBANDS OF HURRICANE JOAQUIN SUPPORT CLOUDINESS ACROSS THE ISLAND WITH POSSIBLE ISOLATED CONVECTION EXPECTED ACROSS THE NORTHERN HALF OF THE ISLAND. SIMILAR ACTIVITY IS EXPECTED TO CONTINUE THROUGH THE NEXT 24 HOURS AS JOAQUIN MOVES WSW TOWARDS THE BAHAMAS BEFORE TAKING A NORTHWARD TURN ON FRIDAY.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLANTIC IS HURRICANE JOAQUIN...PLEASE SEE SPECIAL FEATURES SECTION ABOVE FOR DETAILS. TO THE E OF JOAQUIN...A 1009 MB LOW...REMNANTS OF IDA...IS TRYING TO BECOME ORGANIZED ACROSS THE NW ATLANTIC. PLEASE REFER TO THE SPECIAL FEATURES SECTION FOR MORE DETAILS. A STATIONARY FRONT PREVAILS ACROSS THE CENTRAL AND E ATLANTIC EXTENDING FROM 25N48W TO 23N43W TO 28N31W...THEN BECOMING A COLD FRONT TO 31N21W. ISOLATED MODERATE CONVECTION IS OBSERVED ALONG THESE FRONTAL BOUNDARIES. A SURFACE RIDGE IS ACROSS THE E ATLANTIC ANCHORED BY A 1017 SURFACE HIGH LOCATED NEAR 31N13W.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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ERA

WTNT31 KNHC 301744
TCPAT1

BULLETIN

HURRICANE JOAQUIN INTERMEDIATE ADVISORY NUMBER 11A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
200 PM EDT WED SEP 30 2015

...JOAQUIN CONTINUING TO STRENGTHEN...

SUMMARY OF 200 PM EDT...1800 UTC...INFORMATION

LOCATION...24.4N 72.9W
ABOUT 190 MI...305 KM ENE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...85 MPH...135 KM/H
PRESENT MOVEMENT...SW OR 230 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...968 MB...28.58 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

* Central Bahamas including Cat Island, the Exumas, Long Island,
Rum Cay, and San Salvador.

A Hurricane Watch is in effect for...

* Northwestern Bahamas including the Abacos, Berry Islands, Bimini,
Eleuthera, Grand Bahama Island, and New Providence, but excluding
Andros Island

A Hurricane Warning means that hurricane conditions are expected
somewhere within the warning area. Preparations to protect life and
property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible
within the watch area.

For storm information specific to your area, please monitor
products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 200 PM EDT (1800 UTC), the center of Hurricane Joaquin was located near latitude 24.4 North, longitude 72.9 West. Joaquin is moving toward the southwest near 6 mph (9 km/h). A general motion toward the west-southwest or southwest is expected to continue through tonight. A turn toward the northwest and a decrease in forward speed are forecast Thursday or Thursday night. The center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday.

Maximum sustained winds have increased to near 85 mph (135 km/h) with higher gusts. Additional strengthening is expected, and Joaquin could become a major hurricane during the next couple of days.

Hurricane force winds extend outward up to 35 miles (55 km) from the center and tropical storm force winds extend outward up to 125 miles (205 km).

The estimated minimum central pressure is 968 mb (28.58 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the Central Bahamas by Thursday morning. Winds are expected to first reach tropical storm strength in the warning area tonight, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion. Tropical storm conditions are possible in the southeastern Bahamas beginning tonight. Hurricane conditions could reach the northwestern Bahamas early on Friday.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 2 to 4 feet above normal tide levels in areas of onshore flow. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce 5 to 10 inches of rain over much of the central Bahamas, with isolated maximum amounts of 20 inches possible over San Salvador and Rum Cay through Friday night. Rainfall amounts of 3 to 5 inches are possible over the southeastern Bahamas through Friday night, with 2 to 4 inches

expected over the northwestern Bahamas.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States by Thursday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 500 PM EDT.

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Forecaster Beven

AGXX40 KNHC 301839
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
239 PM EDT WED SEP 30 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

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.FORECASTER AGUIRRE. NATIONAL HURRICANE CENTER.

AGXX40 KNHC 301901
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
239 PM EDT WED SEP 30 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
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.FORECASTER AGUIRRE. NATIONAL HURRICANE CENTER.

WTNT21 KNHC 302049
TCMAT1

HURRICANE JOAQUIN FORECAST/ADVISORY NUMBER 12
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
2100 UTC WED SEP 30 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A HURRICANE WARNING FOR THE NORTHWESTERN BAHAMAS INCLUDING THE ABACOS...BERRY ISLANDS, ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE...BUT EXCLUDING ANDROS ISLAND AND BIMINI.

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A TROPICAL STORM WARNING FOR THE SOUTHEASTERN BAHAMAS...INCLUDING THE ACKLINS...CROOKED ISLAND, LONG CAY...THE INAGUAS...MAYAGUANA...AND THE RAGGED ISLANDS...BUT EXCLUDING THE TURKS AND CAICOS ISLANDS.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

* CENTRAL BAHAMAS INCLUDING CAT ISLAND...THE EXUMAS...LONG ISLAND, RUM CAY...AND SAN SALVADOR

* NORTHWESTERN BAHAMAS INCLUDING THE ABACOS...BERRY ISLANDS, ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE...BUT EXCLUDING ANDROS ISLAND AND BIMINI

A HURRICANE WATCH IS IN EFFECT FOR...

* BIMINI

A TROPICAL STORM WARNING IS IN EFFECT FOR...

* SOUTHEASTERN BAHAMAS INCLUDING THE ACKLINS...CROOKED ISLAND, LONG CAY...THE INAGUAS...MAYAGUANA...AND THE RAGGED ISLANDS...BUT EXCLUDING THE TURKS AND CAICOS ISLANDS.

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE

WITHIN THE WATCH AREA.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

HURRICANE CENTER LOCATED NEAR 24.3N 73.1W AT 30/2100Z
POSITION ACCURATE WITHIN 20 NM

PRESENT MOVEMENT TOWARD THE SOUTHWEST OR 225 DEGREES AT 7 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 967 MB
EYE DIAMETER 45 NM
MAX SUSTAINED WINDS 75 KT WITH GUSTS TO 90 KT.

64 KT..... 30NE 30SE 20SW 20NW.

50 KT..... 40NE 50SE 30SW 30NW.

34 KT.....100NE 110SE 80SW 80NW.

12 FT SEAS..160NE 100SE 90SW 130NW.

WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 24.3N 73.1W AT 30/2100Z
AT 30/1800Z CENTER WAS LOCATED NEAR 24.5N 72.9W

FORECAST VALID 01/0600Z 24.0N 73.8W
MAX WIND 85 KT...GUSTS 105 KT.
64 KT... 30NE 30SE 20SW 20NW.
50 KT... 60NE 60SE 40SW 60NW.
34 KT...120NE 120SE 80SW 80NW.

FORECAST VALID 01/1800Z 23.9N 74.5W
MAX WIND 90 KT...GUSTS 110 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 70NE 70SE 40SW 50NW.
34 KT...130NE 130SE 80SW 100NW.

FORECAST VALID 02/0600Z 24.5N 75.0W
MAX WIND 95 KT...GUSTS 115 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 70NE 70SE 50SW 50NW.
34 KT...150NE 150SE 90SW 120NW.

FORECAST VALID 02/1800Z 25.8N 75.0W
MAX WIND 100 KT...GUSTS 120 KT.
50 KT... 80NE 80SE 60SW 70NW.
34 KT...150NE 150SE 90SW 120NW.

FORECAST VALID 03/1800Z 30.5N 74.5W
MAX WIND 100 KT...GUSTS 120 KT.
50 KT... 80NE 80SE 60SW 70NW.
34 KT...150NE 150SE 90SW 120NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 04/1800Z 36.0N 75.5W
MAX WIND 85 KT...GUSTS 105 KT.

OUTLOOK VALID 05/1800Z 38.5N 76.5W
MAX WIND 55 KT...GUSTS 65 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 24.3N 73.1W

NEXT ADVISORY AT 01/0300Z

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FORECASTER BEVEN

WTNT31 KNHC 302050
TCPAT1

BULLETIN

HURRICANE JOAQUIN ADVISORY NUMBER 12
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 PM EDT WED SEP 30 2015

...JOAQUIN MOVING SOUTHWESTWARD TOWARD THE CENTRAL BAHAMAS...

SUMMARY OF 500 PM EDT...2100 UTC...INFORMATION

LOCATION...24.3N 73.1W
ABOUT 175 MI...285 KM ENE OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...85 MPH...140 KM/H
PRESENT MOVEMENT...SW OR 225 DEGREES AT 8 MPH...13 KM/H
MINIMUM CENTRAL PRESSURE...967 MB...28.56 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Government of the Bahamas has issued a Hurricane Warning for the Northwestern Bahamas including the Abacos, Berry Islands, Eleuthera, Grand Bahama Island, and New Providence, but excluding Andros Island and Bimini.

The Government of the Bahamas has issued a Tropical Storm Warning for the Southeastern Bahamas, including the Acklins, Crooked Island, Long Cay, the Inaguas, Mayaguana, and the Ragged Islands, but excluding the Turks and Caicos Islands.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Central Bahamas including Cat Island, the Exumas, Long Island, Rum Cay, and San Salvador
- * Northwestern Bahamas including the Abacos, Berry Islands, Eleuthera, Grand Bahama Island, and New Providence, but excluding Andros Island and Bimini

A Hurricane Watch is in effect for...

- * Bimini

A Tropical Storm Warning is in effect for...

* Southeastern Bahamas including the Acklins, Crooked Island, Long Cay, the Inaguas, Mayaguana, and the Ragged Islands, but excluding the Turks and Caicos Islands.

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 PM EDT (2100 UTC), the center of Hurricane Joaquin was located near latitude 24.3 North, longitude 73.1 West. Joaquin is moving toward the southwest near 8 mph (13 km/h), and this general motion is expected to continue through Thursday. A turn toward the northwest and north is expected Thursday night and Friday. The center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday, and near or over portions of the Northwestern Bahamas Thursday night or Friday.

Maximum sustained winds are near 85 mph (140 km/h) with higher gusts. Strengthening is forecast during the next 48 hours, and Joaquin could become a major hurricane by Friday.

Hurricane force winds extend outward up to 35 miles (55 km) from the center and tropical storm force winds extend outward up to 125 miles (205 km).

The estimated minimum central pressure is 967 mb (28.56 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the Central Bahamas by early Thursday morning. Winds are expected to first reach tropical storm strength in the warning area tonight,

making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion. Tropical storm conditions are expected in the southeastern Bahamas beginning tonight. Hurricane conditions are expected over portions of the Northwestern Bahamas Thursday night or Friday.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 3 to 5 feet above normal tide levels in areas of onshore flow. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce total rain accumulations of 10 to 15 inches over the central Bahamas and 5 to 10 inches over the northwestern Bahamas and southeastern Bahamas. Isolated maximum amounts of 20 inches are possible in the central Bahamas. This rainfall could result in life-threatening flash floods.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States by Thursday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 800 PM EDT.
Next complete advisory at 1100 PM EDT.

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Forecaster Beven

FKNT21 KNHC 302050
TCANT1

HURRICANE JOAQUIN ICAO ADVISORY NUMBER 12
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
2100 UTC WED SEP 30 2015

TC ADVISORY

DTG: 20150930/2100Z
TCAC: KNHC
TC: JOAQUIN
NR: 012
PSN: N2418 W07306
MOV: SW 07KT
C: 0967HPA
MAX WIND: 075KT
FCST PSN + 06 HR: 010300 N2406 W07334
FCST MAX WIND + 06 HR: 080KT
FCST PSN + 12 HR: 010900 N2358 W07358
FCST MAX WIND + 12 HR: 085KT
FCST PSN + 18 HR: 011500 N2355 W07419
FCST MAX WIND + 18 HR: 090KT
FCST PSN + 24 HR: 012100 N2403 W07437
FCST MAX WIND + 24 HR: 090KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20151001/0300Z

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WTNT41 KNHC 302055
TCDAT1

HURRICANE JOAQUIN DISCUSSION NUMBER 12
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 PM EDT WED SEP 30 2015

There has been little change in the organization of Joaquin during the past several hours. While the hurricane continues to produce cloud tops colder than -80C in the eyewall, the eye has not become better defined since the last advisory. Satellite intensity estimates are 77 kt from both TAFB and SAB, so the advisory intensity is now 75 kt.

The initial motion is 225/7. The shortwave ridge causing this motion is expected to weaken during the next 24-48 hours as a strong deep-layer trough develops over the southeastern United States. Thus, a generally southwestward motion is expected for the next 36 hours or so, followed by a turn toward the north as the trough becomes the dominant steering mechanism. There is an increased disagreement between the GFS, UKMET, Canadian, and NAVGEM models versus the ECMWF since the last advisory. The ECMWF has continued its forecast of showing a northeastward motion after 72 hours, taking Joaquin just west of Bermuda and out to sea. The other models have all shifted their forecasts to the left and now call for landfall in the Carolinas and the mid-Atlantic states, followed by merger with the baroclinic trough. Given the shift in the non-ECMWF models, a major westward adjustment has been made to the forecast track at 96 and 120 hours, bringing the center of Joaquin near or over portions of the mid-Atlantic states. Due to the use of the ECMWF in the consensus models, the new track lies near the various consensus models. However, it lies well to the east of the GFS and the other similar models. The NOAA G-IV jet is currently flying a synoptic surveillance mission, which, along with special rawinsonde launches, hopefully will reduce the spread of the guidance.

There is little change to the intensity forecast philosophy since the last advisory. Joaquin is expected to remain in an environment of moderate northeasterly vertical shear for the next 24-36 hours, possibly including strong winds seen at 400 mb in recent dropsondes from the G-IV aircraft. However, since it has been steadily strengthening in such an environment, there is no obvious reason to think it will stop doing so. After 36 hours, the hurricane is likely to move into an area of divergent southerly upper-level winds associated with the eastern U. S. trough. While there is

uncertainty as to how much shear should occur, it is expected that additional intensification could occur through at least 48 hours. Based on this, the intensity forecast calls for Joaquin to peak as a major hurricane in 48-72 hours, and it is possible it could be stronger than currently forecast. After 72 hours, increasing shear, cold air intrusion, and land interaction should cause weakening and the start of extratropical transition.

KEY MESSAGES:

1. Preparations to protect life and property within the warning areas in the Bahamas should be rushed to completion.
2. A significant adjustment to the forecast has been made this afternoon, and this shows an increased threat to the mid-Atlantic states and the Carolinas. However, confidence in the details of the forecast after 72 hours remains low, since we have one normally excellent model that keeps Joaquin far away from the United States east coast. The range of possible outcomes is still large, and includes the possibility of a major hurricane landfall in the Carolinas.
3. Every effort is being made to provide the forecast models with as much data as possible. The NOAA G-IV jet has begun a series of missions in the storm environment, and the National Weather Service is launching extra balloon soundings.
4. Because landfall, if it occurs, is still more than three days away, it is too early to talk about specific wind, rain, or surge impacts from Joaquin in the United States. Even if Joaquin stays well out to sea, strong onshore winds will create minor to moderate coastal flooding along the coasts of the mid-Atlantic and northeastern states through the weekend.
5. A hurricane watch for a portion of the U.S. coast could be required as early as Thursday evening.
6. Many areas of the eastern U.S. are currently experiencing heavy rains and gusty winds associated with a frontal system. This inclement weather is expected to continue over the next few days, which could complicate preparations for Joaquin should it head toward the coast, and greatly exacerbate the impacts from the hurricane. Heavy rains are likely to continue over these areas even if the center of Joaquin stays out to sea.

FORECAST POSITIONS AND MAX WINDS

INIT 30/2100Z 24.3N 73.1W 75 KT 85 MPH
12H 01/0600Z 24.0N 73.8W 85 KT 100 MPH
24H 01/1800Z 23.9N 74.5W 90 KT 105 MPH
36H 02/0600Z 24.5N 75.0W 95 KT 110 MPH
48H 02/1800Z 25.8N 75.0W 100 KT 115 MPH
72H 03/1800Z 30.5N 74.5W 100 KT 115 MPH
96H 04/1800Z 36.0N 75.5W 85 KT 100 MPH
120H 05/1800Z 38.5N 76.5W 55 KT 65 MPH

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Forecaster Beven

FZNT23 KNHC 302130
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
530 PM EDT WED SEP 30 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-010900-
BAHAMAS INCLUDING CAY SAL BANK-
530 PM EDT WED SEP 30 2015

...HURRICANE WARNING...

.TONIGHT...TROPICAL STORM CONDITIONS. ATLC EXPOSURES... NW WINDS
35 TO 40 KT...INCREASING TO 45 TO 50 KT LATE. ELSEWHERE...NW
WINDS 25 TO 30 KT. SEAS 13 TO 14 FT ATLC EXPOSURES...AND 6 FT
ELSEWHERE. SCATTERED TSTMS.

.THU...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... NW TO N
WINDS 45 TO 55 KT. ELSEWHERE...NW WINDS 35 TO 40 KT...INCREASING
TO 45 TO 50 KT IN THE AFTERNOON. SEAS 17 TO 18 FT ATLC EXPOSURES
AND 6 FT ELSEWHERE. SCATTERED TSTMS.

.THU NIGHT...HURRICANE CONDITIONS EXPECTED. NW WINDS 50 TO 55 KT.
SEAS 20 FT ATLC EXPOSURES...AND 6 FT ELSEWHERE. SCATTERED TSTMS.

.FRI...TROPICAL STORM CONDITIONS EXPECTED. ATLC EXPOSURES...SW
TO W WINDS 50 TO 60 KT. SEAS 15 TO 16 FT. ELSEWHERE...W TO NW
WINDS 45 TO 50 KT. SEAS 6 FT. SCATTERED TSTMS.

.FRI NIGHT...TROPICAL STORM CONDITIONS POSSIBLE. ATLC EXPOSURES...
SW TO W WINDS 50 TO 60 KT...DIMINISHING TO 30 TO 35 KT LATE.
ELSEWHERE...W WINDS 35 TO 40 KT... DIMINISHING TO 25 TO 30 KT
LATE. SEAS 11 TO 13 FT ATLC EXPOSURES...AND 6 FT ELSEWHERE.
SCATTERED SHOWERS AND ISOLATED TSTMS.

.SAT...SW TO W WINDS 25 TO 30 KT. SEAS 8 TO 10 FT ATLC EXPOSURES
AND 5 FT ELSEWHERE.

.SAT NIGHT...SW TO W WINDS 20 TO 25 KT...DIMINISHING TO 15 TO
20 KT LATE. SEAS 7 TO 8 FT ATLC EXPOSURES...AND 4 FT ELSEWHERE.

.SUN...SW TO W WINDS 15 TO 20 KT. SEAS 7 FT ATLC EXPOSURES...AND
4 FT ELSEWHERE.

.SUN NIGHT...SW WINDS 15 TO 20 KT. SEAS 7 FT ATLC EXPOSURES...
AND 3 TO 4 FT ELSEWHERE.

.MON...SW WINDS 15 TO 20 KT...BECOMING SW TO W 10 TO 15 KT IN
THE AFTERNOON. SEAS 6 FT ATLC EXPOSURES...AND 3 FT ELSEWHERE.

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AMZ119-010900-

ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
530 PM EDT WED SEP 30 2015

...HURRICANE WARNING...

.TONIGHT...HURRICANE CONDITIONS. SE TO S WINDS 60 TO 70 KT...
BECOMING SE 45 TO 50 KT LATE. SEAS 21 TO 22 FT. SCATTERED TSTMS.

.THU...HURRICANE CONDITIONS EXPECTED. E TO SE WINDS 40 TO 45 KT
N OF 25N...AND S 45 TO 55 KT ELSEWHERE. SEAS 22 FT. SCATTERED
TSTMS.

.THU NIGHT...HURRICANE CONDITIONS EXPECTED. SE TO S WINDS 45 TO
55 KT. SEAS 24 TO 28 FT N OF 25N...AND 17 TO 19 FT ELSEWHERE.
SCATTERED TSTMS.

.FRI...HURRICANE CONDITIONS EXPECTED. SE TO S WINDS 55 TO 65 KT.
SEAS 28 FT N OF 25N...AND 15 TO 17 FT ELSEWHERE. SCATTERED TSTMS.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE. N OF 25N...S TO SW
WINDS 55 TO 65 KT. ELSEWHERE...S TO SW WINDS 45 TO 50 KT...
DIMINISHING TO 25 TO 30 KT LATE. SEAS 24 TO 26 FT N OF 25N...AND
13 TO 15 FT ELSEWHERE. SCATTERED TSTMS.

.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT NIGHT...SW WINDS 25 TO 30 KT...DIMINISHING TO 20 TO 25 KT
LATE. SEAS 9 TO 10 FT.

.SUN...SW TO W WINDS 15 TO 20 KT. SEAS 7 TO 8 FT.

.SUN NIGHT...N OF 25N...SW WINDS 15 TO 20 KT. ELSEWHERE...SW
WINDS 10 TO 15 KT...BECOMING S TO SW 5 TO 10 KT LATE. SEAS 7 FT.

.MON...SW WINDS 15 TO 20 KT N OF 25N...AND SW 5 TO 10 KT
ELSEWHERE. SEAS 7 FT.

FZNT02 KNHC 302205
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
2230 UTC WED SEP 30 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1800 UTC WED SEP 30.
24 HOUR FORECAST VALID 1800 UTC THU OCT 01.
48 HOUR FORECAST VALID 1800 UTC FRI OCT 02.

.WARNINGS.

...ATLC HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 24.3N 73.1W 967 MB AT 2100 UTC SEP 30 MOVING SW OR 225 DEG AT 7 KT. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 80 NM W SEMICIRCLE...100 NM NE QUADRANT AND 110 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 160 NM NE...100 NM SE...90 NM SW AND 130 NM NW QUADRANTS WITH SEAS TO 27 FT. ELSEWHERE WITHIN 210 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 9 TO 12 FT.

REMAINDER OF AREA N OF 23N BETWEEN 66W AND 78W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 23.9N 74.5W. MAXIMUM SUSTAINED WINDS 90 KT GUSTS 110 KT. TROPICAL STORM FORCE WINDS WITHIN 130 NM E SEMICIRCLE...80 NM SW QUADRANT AND 100 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 120 NM S SEMICIRCLES WITH SEAS TO 30 FT. ELSEWHERE WITHIN 300 NM NE AND 120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT.

REMAINDER OF AREA N OF 22N BETWEEN 68W AND 79W NE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.8N 75.0W. MAXIMUM SUSTAINED WINDS 100 KT GUSTS 120 KT. TROPICAL STORM FORCE WINDS WITHIN 150 NM E SEMICIRCLE...90 NM SW QUADRANT AND 120 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 150 NM S

SEMICIRCLES WITH SEAS TO 36 FT NE OF BAHAMAS. ELSEWHERE WITHIN 360 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 68W AND 79W NE OF BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.
.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 30.5N 74.5W. MAXIMUM SUSTAINED WINDS 100 KT GUSTS 120 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 36.0N 75.5W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT.
.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 38.5N 76.5W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC TROUGH FROM 24N45W TO LOW PRES NEAR 25N57W 1009 MB TO 27N64W. N OF FRONT BETWEEN 50W AND 63W E WINDS 20 TO 30 KT. SEAS 9 TO 13 FT. WITHIN 60 NM OF LOW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF A LINE FROM 25N45W TO 29N65W WINDS 20 KT OR LESS. SEAS TO 10 FT IN N TO NE SWELL.

.24 HOUR FORECAST TROUGH FROM 25N45W TO LOW PRES NEAR 26N58W 1007 MB TO 27N65W. WITHIN 120 NM N AND 30 NM S SEMICIRCLES OF LOW WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF TROUGH BETWEEN 52W AND 63W NE TO E WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF TROUGH BETWEEN 61W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 27N57W 1004 MB. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 12 FT. WITHIN 180 NM SE QUADRANT OF LOW SW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER MUNDELL. NATIONAL HURRICANE CENTER.

FZNT01 KWBC 302208

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

2230 UTC WED SEP 30 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 1800 UTC SEP 30

24 HOUR FORECAST VALID 1800 UTC OCT 01

48 HOUR FORECAST VALID 1800 UTC OCT 02

.WARNINGS.

...GALE WARNING...

.LOW 43N71W 1002 MB MOVING NE 25 KT. WITHIN 120 NM NE AND 180 NM SE QUADRANTS WINDS 25 TO 35 KT. SEAS TO 12 FT. ELSEWHERE WITHIN 540 NM SE QUADRANT WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW 49N59W 1008 MB. OVER FORECAST WATERS WITHIN 180 NM S QUADRANT...120 NM NW SEMICIRCLE AND FROM 51N TO 53N W OF 52W WINDS 30 TO 40 KT. SEAS 8 TO 14 FT. ELSEWHERE WITHIN 1020 NM SW QUADRANT WINDS 20 TO 30 KT. SEAS TO 12 FT.

.48 HOUR FORECAST LOW 52N49W 1009 MB. WITHIN 240 NM NW SEMICIRCLE WINDS 30 TO 40 KT. SEAS 8 TO 16 FT. ELSEWHERE WITHIN 300 NM NW SEMICIRCLE...240 NM SE QUADRANT AND FROM 47N TO 51N W OF 58W WINDS 20 TO 30 KT. SEAS TO 11 FT.

...GALE WARNING...

.LOW INLAND 64N46W 1008 MB MOVING W 15 KT. WINDS LESS THAN 25 KT. SEAS LESS THAN 8 FT.

.12 HOUR FORECAST LOW 64N37W 1002 MB. OVER FORECAST WATERS FROM 59N TO 62N E OF 43W WINDS 25 TO 40 KT. SEAS 8 TO 13 FT.

.24 HOUR FORECAST LOW DISSIPATED. FROM 59N TO 61N E OF 44W AND WITHIN 90 NM S OF A LINE FROM 64N37W TO 63N35W WINDS 25 TO 35 KT. SEAS 8 TO 13 FT.

.48 HOUR FORECAST CONDITIONS DIMINISHED.

...GALE WARNING...

.24 HOUR FORECAST FROM 64N TO 65N BETWEEN 59W AND 64W AREA OF W WINDS 20 TO 30 KT. SEAS LESS THAN 8 FT.

.36 HOUR FORECAST WITHIN 90 NM N AND NW OF A LINE FROM 65N63W TO 65N57W TO 66N53W WINDS 25 TO 35 KT. SEAS TO 10 FT.

.48 HOUR FORECAST FROM 64N TO 66N BETWEEN 57W AND 63W WINDS 25 TO 40 KT. SEAS TO 12 FT. ELSEWHERE FROM 60N TO 64N BETWEEN 56W AND 65W WINDS 20 TO 30 KT. SEAS TO 8 FT.

...GALE WARNING...

.30 HOUR FORECAST OVER FORECAST WATERS W OF A LINE FROM 44N63W TO 37N75W WINDS 25 TO 35 KT. SEAS 8 TO 14 FT.

.48 HOUR FORECAST W OF A LINE FROM 44N62W TO 40N69W TO 37N75W WINDS 25 TO 40 KT. SEAS 9 TO 18 FT.

.SYNOPSIS AND FORECAST.

.LOW 57N44W 1014 MB MOVING E 20 KT. OVER FORECAST WATERS N OF 54N AND E OF A LINE FROM 54N47W TO 61N35W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.24 HOUR FORECAST LOW DISSIPATED. CONDITIONS DIMINISHED.

.FROM 31N TO 35N BETWEEN 52W AND 70W AREA OF E TO SE WINDS 20 TO 30 KT. SEAS TO 11 FT.

.24 HOUR FORECAST FROM 31N TO 34N BETWEEN 60W AND 70W E TO SE WINDS TO 25 KT. SEAS TO 10 FT.

.48 HOUR FORECAST FROM 31N TO 35N BETWEEN 67W AND 76W SE WINDS TO 25 KT. SEAS 9 TO 13 FT.

.LOW E OF AREA 39N30W 1003 MB NEARLY STATIONARY. OVER FORECAST WATERS WITHIN 540 NM NW QUADRANT WINDS TO 25 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW E OF AREA 39N30W 1001 MB. WITHIN 540 NM NW QUADRANT WINDS TO 25 KT. SEAS 9 TO 13 FT.

.48 HOUR FORECAST LOW E OF AREA 41N30W 1002 MB. WITHIN 480 NM NW QUADRANT WINDS TO 25 KT. SEAS TO 10 FT.

.OVER FORECAST WATERS FROM 56N TO 59N W OF 57W AREA OF W TO SW WINDS TO 25 KT. SEAS LESS THAN 8 FT.

.24 HOUR FORECAST CONDITIONS DISSIPATED.

.48 HOUR FORECAST FROM 59N TO 61N BETWEEN 46W AND 49W AREA OF NW WINDS 20 TO 30 KT. SEAS TO 10 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS WITHIN 240 NM SE OF A LINE FROM 55N45W TO 61N35W...120 NM W OF ANOTHER LINE FROM 52N49W TO 47N46W...AND WITHIN 60 NM OF 43N68W.

.24 HOUR FORECAST DENSE FOG WITHIN 120 NM OF 49N49W.

.48 HOUR FORECAST DENSE FOG WITHIN 90 NM E OF A LINE FROM 52N48W TO 49N50W.

.HIGH 43N52W 1027 MB MOVING NE 10 KT WILL MOVE SW AFTER 24 HOURS.

.24 HOUR FORECAST HIGH 47N47W 1028 MB.

.48 HOUR FORECAST HIGH 44N49W 1023 MB.

.HIGH 48N44W 1028 MB DRIFTING W.

.24 HOUR FORECAST HIGH MERGED WITH HIGH 47N47W DESCRIBED ABOVE.

.24 HOUR FORECAST NEW HIGH 56N43W 1029 MB.

.48 HOUR FORECAST HIGH E OF FORECAST AREA.

.FORECASTER REINHART. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 1800 UTC WED SEP 30.

24 HOUR FORECAST VALID 1800 UTC THU OCT 01.

48 HOUR FORECAST VALID 1800 UTC FRI OCT 02.

.WARNINGS.

...ATLC HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 24.3N 73.1W 967 MB AT 2100 UTC SEP 30
MOVING SW OR 225 DEG AT 7 KT. MAXIMUM SUSTAINED WINDS 75 KT
GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 80 NM W
SEMICIRCLE...100 NM NE QUADRANT AND 110 NM SE QUADRANT. SEAS 12
FT OR GREATER WITHIN 160 NM NE...100 NM SE...90 NM SW AND 130 NM
NW QUADRANTS WITH SEAS TO 27 FT. ELSEWHERE WITHIN 210 NM NE AND
120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 9 TO 12 FT.
REMAINDER OF AREA N OF 23N BETWEEN 66W AND 78W WINDS 20 KT OR
LESS. SEAS 8 TO 10 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 23.9N 74.5W. MAXIMUM
SUSTAINED WINDS 90 KT GUSTS 110 KT. TROPICAL STORM FORCE WINDS
WITHIN 130 NM E SEMICIRCLE...80 NM SW QUADRANT AND 100 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 120 NM S
SEMICIRCLES WITH SEAS TO 30 FT. ELSEWHERE WITHIN 300 NM NE AND
120 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10 TO 12 FT.
REMAINDER OF AREA N OF 22N BETWEEN 68W AND 79W NE OF THE BAHAMAS
WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 25.8N 75.0W. MAXIMUM
SUSTAINED WINDS 100 KT GUSTS 120 KT. TROPICAL STORM FORCE WINDS
WITHIN 150 NM E SEMICIRCLE...90 NM SW QUADRANT AND 120 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 240 NM N AND 150 NM S
SEMICIRCLES WITH SEAS TO 36 FT NE OF BAHAMAS. ELSEWHERE WITHIN
360 NM NE AND 120 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 10
TO 12 FT. REMAINDER OF AREA N OF 22N BETWEEN 68W AND 79W NE OF
BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 30.5N 74.5W. MAXIMUM
SUSTAINED WINDS 100 KT GUSTS 120 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 36.0N 75.5W. MAXIMUM
SUSTAINED WINDS 85 KT GUSTS 105 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 38.5N 76.5W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.
FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE
USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE
AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC TROUGH FROM 24N45W TO LOW PRES NEAR 25N57W 1009 MB TO
27N64W. N OF FRONT BETWEEN 50W AND 63W E WINDS 20 TO 30 KT. SEAS
9 TO 13 FT. WITHIN 60 NM OF LOW WINDS 20 TO 25 KT. SEAS TO 9 FT.
ELSEWHERE N OF A LINE FROM 25N45W TO 29N65W WINDS 20 KT OR LESS.
SEAS TO 10 FT IN N TO NE SWELL.

.24 HOUR FORECAST TROUGH FROM 25N45W TO LOW PRES NEAR 26N58W
1007 MB TO 27N65W. WITHIN 120 NM N AND 30 NM S SEMICIRCLES OF

LOW WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF TROUGH BETWEEN 52W AND 63W NE TO E WINDS 20 TO 25 KT. SEAS 9 TO 11 FT. ELSEWHERE N OF TROUGH BETWEEN 61W AND 65W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE TO E SWELL.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 27N57W 1004 MB. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 12 FT. WITHIN 180 NM SE QUADRANT OF LOW SW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.
.FORECASTER MUNDELL. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 302353
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 PM EDT WED SEP 30 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 1800 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 2315 UTC.

...SPECIAL FEATURES...

JOAQUIN BECAME A HURRICANE THIS MORNING AND CONTINUES TO STRENGTHEN JUST E OF THE BAHAMAS. IT IS CENTERED NEAR 24.3N 73.1W AT 30/2100Z OR ABOUT 190 MI...305 KM ENE OF THE CENTRAL BAHAMAS MOVING TOWARD THE SOUTHWEST OR 225 DEGREES AT 7 KT. ON THE FORECAST TRACK...THE CENTER OF JOAQUIN IS EXPECTED TO MOVE NEAR OR OVER PORTIONS OF THE CENTRAL BAHAMAS TONIGHT AND THU. MAXIMUM SUSTAINED WIND SPEED IS 75 KT WITH GUSTS TO 90 KT. NUMEROUS STRONG CONVECTION IS WITHIN 90 NM OF CENTER...EXCEPT SW QUADRANT. NUMEROUS MODERATE ISOLATED STRONG CONVECTION IS NOTED ELSEWHERE FROM 21N-26N BETWEEN 70W-75W. PART OF THE CONVECTION ASSOCIATED WITH THE OVERALL CIRCULATION OF JOAQUIN IS AFFECTING THE SE BAHAMAS AND THE TURKS AND CAICOS ISLANDS AS WELL AS EASTERN CUBA. JOAQUIN IS EXPECTED TO PRODUCE 5-10 INCHES OF RAIN OVER MUCH OF THE CENTRAL BAHAMAS, WITH ISOLATED MAXIMUM AMOUNTS OF 20 INCHES POSSIBLE OVER SAN SALVADOR AND RUM CAY THROUGH FRI NIGHT. RAINFALL AMOUNTS OF 3-5 INCHES ARE POSSIBLE OVER SOUTHEASTERN BAHAMAS THROUGH FRI NIGHT...WITH 2-4 INCHES EXPECTED OVER THE NW BAHAMAS. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A 1009 MB LOW PRES IS ANALYZED NEAR 25.5N 57.5W ALONG AN OLD FRONTAL TROUGH THAT EXTENDS FROM 25N51W TO THE LOW CENTER TO 27N64W. A LARGE AREA OF CLOUDINESS WITH EMBEDDED TSTMS IS NOTED MAINLY E OF THE LOW CENTER COVERING THE AREA FROM 24N-27N BETWEEN 54W-57W. THIS SYSTEM HAS BECOME A LITTLE BETTER ORGANIZED SINCE YESTERDAY..AND ADDITIONAL GRADUAL DEVELOPMENT IS POSSIBLE DURING THE NEXT SEVERAL DAYS WHILE IT MOVES SLOWLY

NORTHWESTWARD TO NORTHWARD. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A TROPICAL CYCLONE DURING THE NEXT 48 HOURS.

...TROPICAL WAVES...

A TROPICAL WAVE IS NEAR THE CAPE VERDE ISLANDS WITH AN AXIS EXTENDING FROM 19N22W TO 12N24W...MOVING SLOWLY W AT 5-10 KT. SCATTERED MODERATE ISOLATED STRONG CONVECTION IS NOTED AHEAD OF THE WAVE AXIS FROM 12N-15N BETWEEN 23W-27W. THE WAVE IS WELL DEPICTED IN THE LATEST GFS 700 MB STREAMLINES AND 850 MB VORTICITY ANALYSIS...AND IS ALSO REFLECTED IN A SURGE OF MOISTURE ON THE TPW SATELLITE IMAGERY.

A SECOND TROPICAL WAVE IS IN THE CENTRAL ATLANTIC EXTENDING FROM 18N37W TO 10N40W...MOVING W AT 5 KT. AN INVERTED-V PATTERN IS NOTED IN THE CLOUD FIELD. A SMALL CLUSTER OF MODERATE CONVECTION IS WHERE THE WAVE MEETS THE MONSOON TROUGH. TPW IMAGERY SHOWS THE WAVE EMBEDDED IN A MODERATE MOIST ENVIRONMENT.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF AFRICA NEAR 14N17W TO 11N26W TO 12N38W TO 10N49W. THE ITCZ CONTINUES FROM 10N49W TO 11N55W TO 9N61W. SCATTERED MODERATE ISOLATED STRONG CONVECTION IS FROM 7N-11N BETWEEN 19.5W-22W. SCATTERED MODERATE IS FROM 10N-11N BETWEEN 42W-46W.

...DISCUSSION...

GULF OF MEXICO...

A SHARP UPPER-LEVEL TROUGH IS OVER THE NW GULF EXTENDING FROM SE LOUISIANA TO NEAR BROWNSVILLE TEXAS. SW FLOW AHEAD OF THE TROUGH IS ADVECTING ABUNDANT MID TO UPPER-LEVEL MOISTURE FROM SOUTH-CENTRAL MEXICO ALL THE WAY NE TO BEYOND FLORIDA. THIS TROUGH SUPPORTS A WEAK 1009 MB LOW PRES LOCATED NEAR 26N92W WITH A TROUGH EXTENDING NE TO THE FLORIDA PANHANDLE. VISIBLE SATELLITE IMAGERY SHOWS A SWIRL OF LOW CLOUDS IN ASSOCIATION WITH THIS LOW FORECAST TO WEAKEN TO A TROUGH TONIGHT. AT 2100 UTC... SCATTEROMETER DATA INDICATE THE PRESENCE OF ANOTHER SURFACE TROUGH OVER THE SE GULF AND STRETCHES FROM 25N84W TO 22N87W TO THE NORTHERN YUCATAN PENINSULA NEAR 20N89W. THE TROUGH IS GENERATING SOME SHOWER AND TSTM ACTIVITY OVER PARTS OF WESTERN CUBA AND THE YUCATAN PENINSULA. LOOKING AHEAD...A COLD FRONT IS FORECAST TO REACH THE NORTHERN GULF BY THU. THIS FRONT WILL MOVE

RAPIDLY SE AND EXTEND FROM TAMPA BAY TO THE BAY OF CAMPECHE EARLY FRI AFTERNOON...AND MOVE SE OF GULF BY EARLY SAT AS WEAKENING FRONT. FRESH TO STRONG NORTHERLY WINDS AND BUILDING SEAS ARE EXPECTED IN THE WAKE OF THE FRONT.

CARIBBEAN SEA...

DUE TO THE PRESENCE OF HURRICANE JOAQUIN JUST E OF THE BAHAMAS...MAINLY GENTLE TRADE WINDS ARE NOTED ACROSS THE BASIN WITH THE EXCEPTION OF MODERATE TRADE WINDS OVER THE SOUTH-CENTRAL CARIBBEAN. IN ADDITION...ANOMALOUS SW TO W WINDS ARE SEEN PER SCATTEROMETER DATA OVER MUCH OF THE NW CARIBBEAN... BETWEEN EASTERN CUBA AND JAMAICA AND INTO THE WINDWARD PASSAGE. AS JOAQUIN APPROACHES THE CENTRAL BAHAMAS TONIGHT AND THU...THE SW FLOW MAY INCREASE...PARTICULARLY ACROSS THE EASTERN HALF OF CUBA AND REGIONAL WATERS...INCLUDING ALSO THE WINDWARD PASSAGE. THE GFS COMPUTER MODEL SUGGESTS INCREASING WINDS TO 20-25 KT. AS IT IS NORMAL FOR THIS TIME OF THE YEAR...THE MONSOON TROUGH IS OVER THE FAR SOUTH-CENTRAL CARIBBEAN GENERATING SOME SHOWER AND TSTM ACTIVITY OVER PARTS OF PANAMA AND COSTA RICA. ALOFT... UPPER-LEVEL NLY FLOW PREVAILS OVER MOST OF THE CENTRAL AND WESTERN CARIBBEAN. AN UPPER-LEVEL TROUGH EXTENDS FROM THE LEEWARD ISLANDS TO THE ABC ISLANDS AND NW VENEZUELA. SW WINDS AHEAD OF THE TROUGH AXIS ARE TRANSPORTING ABUNDANT MID-UPPER LEVEL MOISTURE FROM SOUTH AMERICA ACROSS THE WINDWARD ISLANDS INTO THE TROPICAL N ATLC WHERE SOME SHOWER ACTIVITY IS NOTED.

...HISPANIOLA...

THE OUTER RAINBANDS OF HURRICANE JOAQUIN SUPPORT CLOUDINESS ACROSS THE ISLAND WITH POSSIBLE ISOLATED CONVECTION EXPECTED ACROSS THE NORTHERN HALF OF THE ISLAND. SIMILAR ACTIVITY IS EXPECTED TO CONTINUE THROUGH THE NEXT 24 HOURS AS HURRICANE JOAQUIN MOVES SW TOWARD THE BAHAMAS TONIGHT AND THU.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLANTIC IS HURRICANE JOAQUIN...PLEASE SEE SPECIAL FEATURES SECTION ABOVE FOR DETAILS. SWELLS GENERATED BY JOAQUIN WILL AFFECT PORTIONS OF THE BAHAMAS DURING THE NEXT FEW DAYS...AND WILL BEGIN TO AFFECT PORTIONS OF THE SOUTHEASTERN COAST OF THE UNITED STATES BY THURSDAY. THESE SWELLS ARE LIKELY TO CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS. TO THE E OF JOAQUIN...A 1009 MB LOW PRES IS NEAR 25.5N 57.5W. PLEASE REFER TO THE SPECIAL FEATURES SECTION FOR MORE DETAILS. A WEAKENING STATIONARY FRONT ENTERS THE FORECAST AREA NEAR 31N21W

THEN CONTINUES SW TO NEAR 28N35W TO 24N45W TO 24N50W. SCATTERED MODERATE CONVECTION IS WITHIN 120 NM S OF THE FRONT BETWEEN 27W-36W. A WEAK PRES GRADIENT IS NOTED ACROSS MUCH OF THE FORECAST REGION...EXCEPT OVER THE NORTH CENTRAL ATLC WHERE FRESH TO STRONG EASTERLY WINDS ARE OBSERVED PER SCATTEROMETER DATA DUE TO THE PRES GRADIENT BETWEEN THE ATLC RIDGE ANCHORED ON A HIGH PRES LOCATED WELL N OF AREA AND THE AFOREMENTIONED LOW PRES. A WEAK SURFACE RIDGE DOMINATES THE MADEIRA/CANARY ISLANDS.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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GR

WTNT31 KNHC 302357
TCPAT1

BULLETIN

HURRICANE JOAQUIN INTERMEDIATE ADVISORY NUMBER 12A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
800 PM EDT WED SEP 30 2015

...HURRICANE HUNTER AIRCRAFT FINDS JOAQUIN STRONGER...

SUMMARY OF 800 PM EDT...0000 UTC...INFORMATION

LOCATION...24.0N 73.0W

ABOUT 95 MI...150 KM E OF SAN SALVADOR BAHAMAS

ABOUT 80 MI...125 KM NE OF SAMANA CAYS BAHAMAS

MAXIMUM SUSTAINED WINDS...105 MPH...165 KM/H

PRESENT MOVEMENT...SW OR 225 DEGREES AT 7 MPH...11 KM/H

MINIMUM CENTRAL PRESSURE...954 MB...28.17 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

* Central Bahamas including Cat Island, the Exumas, Long Island,
Rum Cay, and San Salvador

* Northwestern Bahamas including the Abacos, Berry Islands,
Eleuthera, Grand Bahama Island, and New Providence, but excluding
Andros Island and Bimini

A Hurricane Watch is in effect for...

* Bimini

A Tropical Storm Warning is in effect for...

* Southeastern Bahamas including the Acklins, Crooked Island,
Long Cay, the Inaguas, Mayaguana, and the Ragged Islands, but
excluding the Turks and Caicos Islands.

A Hurricane Warning means that hurricane conditions are expected
somewhere within the warning area. Preparations to protect life and

property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 800 PM EDT (0000 UTC), the center of the eye of Hurricane Joaquin was located near latitude 24.0 North, longitude 73.0 West. Joaquin has been drifting southward during the past few hours, but a general motion toward the southwest near 7 mph (11 km/h) is expected through Thursday. A turn toward the northwest and north is forecast Thursday night or Friday. The center of Joaquin is expected to move near or over portions of the central Bahamas tonight and Thursday, and be near or over portions of the Northwestern Bahamas Thursday night or Friday.

Recent reports from an Air Force Reserve Hurricane Hunter aircraft indicate that the maximum sustained winds have increased to near 105 mph (165 km/h) with higher gusts. Additional strengthening is forecast during the next 48 hours, and Joaquin is expected to become a major hurricane during the next 24 hours.

Hurricane-force winds extend outward up to 35 miles (55 km) from the center and tropical-storm-force winds extend outward up to 125 miles (205 km).

The latest minimum central pressure reported by reconnaissance aircraft is 954 mb (28.17 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the Central Bahamas by early Thursday morning. Winds are expected to first reach tropical storm strength in the warning area tonight, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion. Tropical storm conditions are expected in the southeastern Bahamas beginning

tonight. Hurricane conditions are expected over portions of the Northwestern Bahamas Thursday night or Friday.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 3 to 5 feet above normal tide levels in areas of onshore flow. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce total rain accumulations of 10 to 15 inches over the central Bahamas and 5 to 10 inches over the northwestern Bahamas and southeastern Bahamas. Isolated maximum amounts of 20 inches are possible in the central Bahamas. This rainfall could result in life-threatening flash floods.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States by Thursday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 1100 PM EDT.

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Forecaster Brown/Stewart

WTNT31 KNHC 010249
TCPAT1

BULLETIN

HURRICANE JOAQUIN ADVISORY NUMBER 13
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM EDT WED SEP 30 2015

...JOAQUIN BECOMES A CATEGORY 3 HURRICANE AS IT MOVES TOWARD
THE CENTRAL BAHAMAS...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

LOCATION...23.8N 73.1W
ABOUT 90 MI...145 KM E OF SAN SALVADOR
ABOUT 170 MI...275 KM E OF THE CENTRAL BAHAMAS
MAXIMUM SUSTAINED WINDS...115 MPH...185 KM/H
PRESENT MOVEMENT...SW OR 220 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...951 MB...28.09 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The government of the Bahamas has issued a Tropical Storm Warning
and a Hurricane Watch for Andros Island.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Central Bahamas including Cat Island, the Exumas, Long Island,
Rum Cay, and San Salvador
- * Northwestern Bahamas including the Abacos, Berry Islands,
Eleuthera, Grand Bahama Island, and New Providence

A Hurricane Watch is in effect for...

- * Bimini
- * Andros Island

A Tropical Storm Warning is in effect for...

- * Southeastern Bahamas including the Acklins, Crooked Island,
Long Cay, the Inaguas, Mayaguana, and the Ragged Islands, but
excluding the Turks and Caicos Islands.
- * Andros Island

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. Preparations to protect life and property should have already been completed in the Central Bahamas.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Hurricane Joaquin was located near latitude 23.8 North, longitude 73.1 West. Joaquin is moving toward the southwest near 6 mph (9 km/h) and this general motion is expected to continue over the next 24 hours. A turn toward the northwest and north is forecast Thursday night or Friday. The center of Joaquin is expected to move near or over portions of the central Bahamas overnight and Thursday, and be near or over portions of the Northwestern Bahamas Thursday night or Friday.

Data from an Air Force Reserve Hurricane Hunter Aircraft indicate that maximum sustained winds have increased to near 115 mph (185 km/h) with higher gusts. Joaquin is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Additional strengthening is forecast during the next day or so. Some fluctuations in intensity are possible Thursday night and Friday.

Hurricane-force winds extend outward up to 35 miles (55 km) from the center and tropical-storm-force winds extend outward up to 140 miles (220 km).

The latest minimum central pressure estimated from reconnaissance data is 951 mb (28.09 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the Central Bahamas by early Thursday morning. Winds are expected to first reach tropical storm strength in the warning area tonight,

making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion. Tropical storm conditions are expected in the southeastern Bahamas beginning tonight. Hurricane conditions are expected over portions of the Northwestern Bahamas Thursday night or Friday.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 5 to 8 feet above normal tide levels in the Central Bahamas in areas of onshore flow. A storm surge of 2 to 4 feet above normal tide levels is expected in the Northwest Bahamas within the Hurricane Warning area, and 1 to 2 feet is expected in the Southeast Bahamas. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce total rain accumulations of 10 to 15 inches over the central Bahamas and 5 to 10 inches over the northwestern Bahamas and southeastern Bahamas. Isolated maximum amounts of 20 inches are possible in the central Bahamas. This rainfall could result in life-threatening flash floods.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States by Thursday. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 200 AM EDT.

Next complete advisory at 500 AM EDT.

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Forecaster Brown/Stewart

FKNT21 KNHC 010249
TCANT1

HURRICANE JOAQUIN ICAO ADVISORY NUMBER 13
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC THU OCT 01 2015

TC ADVISORY

DTG: 20151001/0300Z
TCAC: KNHC
TC: JOAQUIN
NR: 013
PSN: N2348 W07306
MOV: SW 05KT
C: 0951HPA
MAX WIND: 100KT
FCST PSN + 06 HR: 010900 N2336 W07334
FCST MAX WIND + 06 HR: 105KT
FCST PSN + 12 HR: 011500 N2331 W07358
FCST MAX WIND + 12 HR: 115KT
FCST PSN + 18 HR: 012100 N2334 W07419
FCST MAX WIND + 18 HR: 120KT
FCST PSN + 24 HR: 020300 N2352 W07434
FCST MAX WIND + 24 HR: 120KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20151001/0900Z

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WTNT21 KNHC 010249
TCMAT1

HURRICANE JOAQUIN FORECAST/ADVISORY NUMBER 13
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0300 UTC THU OCT 01 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A TROPICAL STORM
WARNING
AND A HURRICANE WATCH FOR ANDROS ISLAND.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

- * CENTRAL BAHAMAS INCLUDING CAT ISLAND...THE EXUMAS...LONG ISLAND,
RUM CAY...AND SAN SALVADOR
- * NORTHWESTERN BAHAMAS INCLUDING THE ABACOS...BERRY ISLANDS,
ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE

A HURRICANE WATCH IS IN EFFECT FOR...

- * BIMINI
- * ANDROS ISLAND

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * SOUTHEASTERN BAHAMAS INCLUDING THE ACKLINS...CROOKED ISLAND,
LONG CAY...THE INAGUAS...MAYAGUANA...AND THE RAGGED ISLANDS...BUT
EXCLUDING THE TURKS AND CAICOS ISLANDS.
- * ANDROS ISLAND

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA. PREPARATIONS TO PROTECT LIFE
AND
PROPERTY SHOULD BE RUSHED TO COMPLETION.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE
WITHIN THE WATCH AREA.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE
EXPECTED SOMEWHERE WITHIN THE WARNING AREA.

HURRICANE CENTER LOCATED NEAR 23.8N 73.1W AT 01/0300Z
POSITION ACCURATE WITHIN 15 NM

PRESENT MOVEMENT TOWARD THE SOUTHWEST OR 220 DEGREES AT 5 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 951 MB
MAX SUSTAINED WINDS 100 KT WITH GUSTS TO 120 KT.
64 KT..... 25NE 30SE 20SW 20NW.
50 KT..... 40NE 60SE 30SW 40NW.
34 KT.....100NE 120SE 80SW 80NW.
12 FT SEAS..210NE 160SE 120SW 180NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 23.8N 73.1W AT 01/0300Z
AT 01/0000Z CENTER WAS LOCATED NEAR 23.9N 73.0W

FORECAST VALID 01/1200Z 23.5N 73.8W
MAX WIND 110 KT...GUSTS 135 KT.
64 KT... 30NE 30SE 20SW 20NW.
50 KT... 60NE 60SE 40SW 60NW.
34 KT...120NE 120SE 80SW 80NW.

FORECAST VALID 02/0000Z 23.6N 74.5W
MAX WIND 120 KT...GUSTS 145 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 70NE 70SE 40SW 50NW.
34 KT...130NE 130SE 80SW 100NW.

FORECAST VALID 02/1200Z 24.7N 74.8W
MAX WIND 120 KT...GUSTS 145 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 70NE 70SE 50SW 50NW.
34 KT...150NE 150SE 90SW 120NW.

FORECAST VALID 03/0000Z 26.6N 74.7W
MAX WIND 110 KT...GUSTS 135 KT.
50 KT... 80NE 80SE 60SW 70NW.
34 KT...180NE 180SE 100SW 140NW.

FORECAST VALID 04/0000Z 31.6N 74.7W
MAX WIND 95 KT...GUSTS 115 KT.
50 KT... 90NE 90SE 60SW 70NW.
34 KT...210NE 180SE 100SW 160NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 05/0000Z 36.2N 75.6W

MAX WIND 85 KT...GUSTS 105 KT.

OUTLOOK VALID 06/0000Z 38.5N 76.5W
MAX WIND 55 KT...GUSTS 65 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 23.8N 73.1W

NEXT ADVISORY AT 01/0900Z

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FORECASTER BROWN

WTNT41 KNHC 010250
TCDAT1

HURRICANE JOAQUIN DISCUSSION NUMBER 13
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 PM EDT WED SEP 30 2015

Joaquin has rapidly intensified during the past 24 hours with the satellite presentation continuing to improve this evening. The eye has recently become apparent near the center of the very symmetric central dense overcast. An Air Force Reserve Hurricane Hunter aircraft that has been investigating the hurricane this evening has measured peak 700 mb flight-level winds of 113 kt and 102 kt surface winds from the SFMR. These data support an initial intensity of 100 kt, making Joaquin the second major hurricane of the 2015 Atlantic hurricane season. NOTE: Communications problems have delayed the public release of the Air Force reconnaissance data.

Joaquin continues to move slowly southwestward with an initial motion estimate of 220/5 kt. The hurricane is forecast to move slowly southwestward or west-southwestward for another 24 hours or so while it remains to the south of a narrow northeast to southwest oriented ridge. This ridge is expected to weaken by Friday as a trough deepens and cuts off over the southeastern United States. This should cause Joaquin to turn northward within 48 hours. The 18Z runs of the GFS and HWRF remain in general agreement with the 12Z UKMET and Canadian models moving Joaquin around the northeastern portion of the cut-off low and bring the hurricane inland over the Carolinas or mid-Atlantic states. The 12Z ECMWF remains the outlier by showing a track toward the northeast out to sea. The NHC forecast continues to follow the trend of the bulk of the guidance and takes Joaquin toward the U.S east coast. The NHC track is similar to the previous advisory and is once again east of the multi-model consensus. The NOAA G-IV aircraft has recently completed its synoptic surveillance flight, and data collected during this mission should be assimilated into the 0000 UTC models, hopefully reducing the spread of the track guidance.

The upper-level wind pattern over the hurricane is forecast by the global models to become even more conducive during the next couple of days. This favors additional intensification, with the only possible limiting factors being upwelling of cool SSTs beneath the slow-moving hurricane and eyewall cycles which could cause some fluctuations in intensity. By 72 hours, increasing southwesterly shear, dry air intrusion, and lower SSTs are expected to cause gradual weakening. The updated NHC intensity forecast has been

significantly increased from the previous advisory primarily due to the higher initial intensity. The official forecast is between the lower statistical guidance and the higher HWRF during the first 36-48 hours, and is near the SHIPS/LGEM guidance after that time.

KEY MESSAGES:

1. Preparations to protect life and property within the warning areas in the Central Bahamas should be completed now.
2. Confidence in the details of the forecast after 72 hours remains low, since we have one normally excellent model that keeps Joaquin far away from the United States east coast. The range of possible outcomes is still large, and includes the possibility of a major hurricane landfall in the Carolinas.
3. Every effort is being made to provide the forecast models with as much data as possible. The NOAA G-IV jet has begun a series of missions in the storm environment, and the National Weather Service has begun launching extra balloon soundings.
4. Because landfall, if it occurs, is still more than three days away, it's too early to talk about specific wind, rain, or surge impacts from Joaquin in the United States. Regardless of Joaquin's track, strong onshore winds will create minor to moderate coastal flooding along the coasts of the mid-Atlantic and northeastern states through the weekend.
5. A hurricane watch for a portion of the U.S. coast could be required as early as Thursday evening.
6. Many portions of the eastern U.S. are currently experiencing heavy rains and gusty winds associated with a frontal system. These heavy rains are likely to continue for the next few days, even if the center of Joaquin stays offshore. The resulting inland flood potential could complicate preparations for Joaquin should it head toward the coast, and even more substantial inland flooding is possible if Joaquin later passes near or over these same areas.

FORECAST POSITIONS AND MAX WINDS

INIT 01/0300Z 23.8N 73.1W 100 KT 115 MPH
12H 01/1200Z 23.5N 73.8W 110 KT 125 MPH
24H 02/0000Z 23.6N 74.5W 120 KT 140 MPH

36H 02/1200Z 24.7N 74.8W 120 KT 140 MPH
48H 03/0000Z 26.6N 74.7W 110 KT 125 MPH
72H 04/0000Z 31.6N 74.7W 95 KT 110 MPH
96H 05/0000Z 36.2N 75.6W 85 KT 100 MPH
120H 06/0000Z 38.5N 76.5W 55 KT 65 MPH

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Forecaster Brown

FZNT02 KNHC 010255
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
0430 UTC THU OCT 1 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.

SYNOPSIS VALID 0000 UTC THU OCT 01.
24 HOUR FORECAST VALID 0000 UTC FRI OCT 02.
48 HOUR FORECAST VALID 0000 UTC SAT OCT 03.

.WARNINGS.

...ATLC HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 23.8N 73.1W 951 MB AT 0300 UTC OCT 01
MOVING SW OR 220 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 100 KT
GUSTS 120 KT. TROPICAL STORM FORCE WINDS WITHIN 80 NM W
SEMICIRCLE...100 NM NE QUADRANT AND 120 NM SE QUADRANT. SEAS 12
FT OR GREATER WITHIN 210 NM NE...160 NM SE...120 NM SW AND 180
NM NW QUADRANTS WITH SEAS TO 30 FT. ELSEWHERE WITHIN 270 NM NE
AND 180 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E
OF BAHAMAS. REMAINDER OF AREA N OF 22N BETWEEN 67W AND 78W WINDS
20 KT OR LESS. SEAS 8 TO 11 FT PRIMARILY IN NE SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 23.6N 74.5W. MAXIMUM
SUSTAINED WINDS 120 KT GUSTS 145 KT. TROPICAL STORM FORCE WINDS
WITHIN 130 NM E SEMICIRCLE...80 NM SW QUADRANT AND 100 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 270 NM NE AND 120 NM SE
SEMICIRCLES WITH SEAS TO 36 FT. ELSEWHERE WITHIN 330 NM NE AND
180 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E OF
BAHAMAS. REMAINDER OF AREA N OF 22N BETWEEN 67W AND 79W NE OF
THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 26.6N 74.7W. MAXIMUM
SUSTAINED WINDS 110 KT GUSTS 135 KT. TROPICAL STORM FORCE WINDS
WITHIN 180 NM E SEMICIRCLE...100 NM SW QUADRANT AND 140 NM NW
QUADRANT. SEAS 12 FT OR GREATER WITHIN 390 NM N AND 210 NM S

SEMICIRCLES WITH SEAS TO 42 FT. ELSEWHERE WITHIN 450 NM N AND 300 NM S SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 22N W OF 65W NE OF BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.
.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 31.6N 74.7W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 36.2N 75.6W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT.
.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 38.5N 76.5W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC TROUGH FROM 25N50W TO LOW PRES NEAR 26N57W 1008 MB TO 27N64W. N OF TROUGH BETWEEN 50W AND 64W E WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. WITHIN 60 NM OF LOW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF A LINE FROM 25N50W TO 29N68W WINDS 20 KT OR LESS. SEAS TO 10 FT IN NE SWELL.
.24 HOUR FORECAST TROUGH FROM 26N50W TO LOW PRES NEAR 26N57W 1007 MB TO 26N64W. WITHIN 120 NM N AND 30 NM S SEMICIRCLES OF LOW WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF TROUGH BETWEEN 51W AND 62W NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. ELSEWHERE N OF 26N BETWEEN 62W AND 67W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.
.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 27N57W 1004 MB. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 12 FT. WITHIN 180 NM SE QUADRANT OF LOW SW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF 27N BETWEEN 51W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER MUNDELL. NATIONAL HURRICANE CENTER.

FZNT23 KNHC 010314
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
1113 PM EDT WED SEP 30 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-011515-
BAHAMAS INCLUDING CAY SAL BANK-
1113 PM EDT WED SEP 30 2015

...HURRICANE WARNING...

.OVERNIGHT...TROPICAL STORM CONDITIONS. ATLC EXPOSURES... NW
WINDS 35 TO 40 KT...INCREASING TO 50 TO 60 KT LATE.
ELSEWHERE...NW WINDS 25 TO 30 KT. SEAS 17 TO 20 FT ATLC
EXPOSURES...AND 7 TO 8 FT ELSEWHERE. SCATTERED TSTMS.
.THU...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... N WINDS
75 TO 95 KT. SEAS 22 TO 24 FT. ELSEWHERE...NW WINDS 35 TO 45 KT.
SEAS 10 FT. SCATTERED TSTMS.
.THU NIGHT...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES...N
TO NE WINDS 80 TO 100 KT. SEAS 25 FT. ELSEWHERE...NW WINDS 45 TO
65 KT. SEAS 10 FT. SCATTERED TSTMS.
.FRI...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... W WINDS
80 TO 100 KT. ELSEWHERE...W TO NW WINDS 55 TO 65 KT...
DIMINISHING TO 45 TO 50 KT IN THE AFTERNOON. SEAS 24 TO 25 FT
ATLC EXPOSURES...AND 9 TO 10 FT ELSEWHERE. SCATTERED TSTMS.
.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE. ATLC EXPOSURES...SW
TO W WINDS 55 TO 65 KT...DIMINISHING TO 35 TO 40 KT LATE.
ELSEWHERE...W WINDS 35 TO 40 KT...DIMINISHING TO 25 TO 30 KT
LATE. SEAS 16 TO 20 FT ATLC EXPOSURES...AND 8 TO 9 FT ELSEWHERE.
SCATTERED SHOWERS AND ISOLATED TSTMS.
.SAT...SW TO W WINDS 25 TO 30 KT. SEAS 12 TO 14 FT ATLC
EXPOSURES...AND 6 TO 7 FT ELSEWHERE.
.SAT NIGHT...SW TO W WINDS 20 TO 25 KT...DIMINISHING TO 15 TO 20
KT LATE. SEAS 9 TO 10 FT ATLC EXPOSURES...AND 5 FT ELSEWHERE.
.SUN...SW TO W WINDS 15 TO 20 KT. SEAS 7 TO 8 FT ATLC

EXPOSURES...AND 4 FT ELSEWHERE.
.SUN NIGHT...SW WINDS 15 TO 20 KT. SEAS 5 FT.
.MON...SW TO W WINDS 15 TO 20 KT. SEAS 4 FT.

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AMZ119-011515-
ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
1113 PM EDT WED SEP 30 2015

...HURRICANE WARNING...

.OVERNIGHT...HURRICANE CONDITIONS. N OF 25N...E WINDS 45 TO 50
KT. ELSEWHERE...S TO SW WINDS 60 TO 70 KT...BECOMING S 75 TO 85
KT LATE. SEAS 17 TO 18 FT N OF 25N...AND 21 TO 22 FT ELSEWHERE.
SCATTERED TSTMS.

.THU...HURRICANE CONDITIONS EXPECTED. N OF 25N...E TO SE WINDS
30 TO 40 KT. SEAS 19 TO 21 FT. ELSEWHERE...SE TO S WINDS 70 TO
90 KT. SEAS 24 TO 26 FT. SCATTERED TSTMS.

.THU NIGHT...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N... E
TO SE WINDS 35 TO 40 KT...INCREASING TO 45 TO 55 KT LATE.
ELSEWHERE...S WINDS 75 TO 95 KT. SEAS 23 TO 26 FT N OF 25N...AND
25 TO 26 FT ELSEWHERE. SCATTERED TSTMS.

.FRI...HURRICANE CONDITIONS EXPECTED. SE TO S WINDS 80 TO 100
KT. SEAS 30 TO 32 FT N OF 25N...AND 20 TO 22 FT ELSEWHERE.
SCATTERED TSTMS.

.FRI NIGHT...HURRICANE CONDITIONS POSSIBLE. N OF 25N...S TO SW
WINDS 80 TO 100 KT. ELSEWHERE...S TO SW WINDS 45 TO 50 KT...
DIMINISHING TO 25 TO 30 KT LATE. SEAS 29 TO 32 FT N OF 25N...AND
15 TO 18 FT ELSEWHERE. SCATTERED TSTMS.

.SAT...TROPICAL STORM CONDITIONS POSSIBLE.

.SAT NIGHT...SW WINDS 25 TO 30 KT...DIMINISHING TO 20 TO 25 KT
LATE. SEAS 12 TO 15 FT N OF 25N... AND 10 TO 12 FT ELSEWHERE.

.SUN...SW WINDS 20 TO 25 KT...BECOMING SW TO W 15 TO 20 KT IN
THE AFTERNOON. SEAS 8 TO 10 FT.

.SUN NIGHT...SW WINDS 15 TO 20 KT. SEAS 7 FT.

.MON...SW WINDS 15 TO 20 KT. SEAS 6 FT.

FZNT01 KWBC 010417

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

0430 UTC THU OCT 01 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0000 UTC OCT 01

24 HOUR FORECAST VALID 0000 UTC OCT 02

48 HOUR FORECAST VALID 0000 UTC OCT 03

.WARNINGS.

...GALE WARNING...

.LOW 45N68W 1004 MB MOVING NE 25 KT. WITHIN 120 NM E AND 180 NM SE QUADRANTS WINDS 25 TO 35 KT. SEAS TO 13 FT. ELSEWHERE FROM 36N TO 49N BETWEEN 62W AND 71W WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW 50N56W 1012 MB. WITHIN 180 NM NE...300 NM N AND 180 NM W QUADRANTS WINDS 25 TO 35 KT. SEAS 8 TO 13 FT. ELSEWHERE FROM 45N TO 52N BETWEEN 55W AND 64W WINDS 20 TO 30 KT. SEAS TO 12 FT.

.48 HOUR FORECAST LOW 52N49W 1009 MB. WITHIN 240 NM NW SEMICIRCLE WINDS 30 TO 40 KT. SEAS 9 TO 17 FT. ELSEWHERE WITHIN 300 NM NW AND S SEMICIRCLES AND FROM 45N TO 51N BETWEEN 56W AND 64W WINDS 20 TO 30 KT. SEAS TO 12 FT.

...GALE WARNING...

.LOW 64N39W 1005 MB MOVING NE 15 KT. BETWEEN 120 NM AND 360 NM S QUADRANT AND BETWEEN 120 NM AND 540 NM SE QUADRANT WINDS 20 TO 30 KT. SEAS TO 12 FT.

.12 HOUR FORECAST LOW 65N36W 1007 MB. FROM 59N TO 61N E OF 43W WINDS 25 TO 35 KT. SEAS 11 TO 15 FT.

.24 HOUR FORECAST LOW DISSIPATED. N OF 58N E OF 44W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.48 HOUR FORECAST CONDITIONS DIMINISHED.

...GALE WARNING...

.24 HOUR FORECAST FROM 64N TO 66N BETWEEN 57W AND 64W AREA OF W WINDS 20 TO 30 KT. SEAS TO 8 FT.

.48 HOUR FORECAST FROM 63N TO 66N W OF 60W...ALSO N OF 65N BETWEEN 55W AND 60W WINDS 25 TO 35 KT. SEAS TO 13 FT. ELSEWHERE N OF 60N W OF 55W WINDS 20 TO 30 KT. SEAS TO 9 FT.

...GALE WARNING...

.24 HOUR FORECAST OVER FORECAST WATERS W OF A LINE FROM 43N66W TO 40N70W TO 36N75W WINDS 25 TO 35 KT. SEAS TO 12 FT.

.48 HOUR FORECAST W OF A LINE FROM 43N67W TO 40N69W TO 36N76W
WINDS 25 TO 40 KT. SEAS 9 TO 18 FT.
.SYNOPSIS AND FORECAST.
.S OF A LINE FROM 36N62W TO 31N54W WINDS 20 TO 30 KT. SEAS FROM
31N TO 35N BETWEEN 52W AND 70W AREA OF E TO SE WINDS 20 TO 30
KT. SEAS TO 11 FT.
.24 HOUR FORECAST CONDITIONS DIMINISHED.
.48 HOUR FORECAST FROM 31N TO 34N BETWEEN 67W AND 78W WINDS 20
TO 30 KT. SEAS 9 TO 14 FT.
.LOW E OF AREA 39N30W 1003 MB NEARLY STATIONARY. OVER FORECAST
WATERS WITHIN 480 NM NW QUADRANT WINDS 20 TO 30 KT. SEAS TO 12
FT.
.24 HOUR FORECAST LOW E OF AREA 39N30W 1002 MB. WITHIN 420 NM NW
QUADRANT WINDS TO 25 KT. SEAS TO 12 FT.
.48 HOUR FORECAST LOW E OF AREA 41N29W 1003 MB. WITHIN 360 NM NW
QUADRANT WINDS TO 25 KT. SEAS TO 10 FT.
.48 HOUR FORECAST FROM 58N TO 61N BETWEEN 45W AND 50W AREA OF NW
WINDS 20 TO 30 KT. SEAS TO 9 FT.
.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST
WATERS WITHIN 240 NM SE OF A LINE FROM 54N43W TO 60N35W...ALSO
FROM 46N TO 51N BETWEEN 47W AND 52W.
.24 HOUR FORECAST DENSE FOG WITHIN 180 NM OF 50N50W.
.48 HOUR FORECAST CONDITIONS IMPROVED.
.HIGH 44N51W 1028 MB MOVING NE 15 KT.
.24 HOUR FORECAST HIGH 48N44W 1026 MB.
.48 HOUR FORECAST HIGH 41N52W 1023 MB.
.FORECASTER SHAW. OCEAN PREDICTION CENTER.
NATIONAL HURRICANE CENTER MIAMI FL
ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND
GULF OF MEXICO.
SYNOPSIS VALID 0000 UTC THU OCT 01.
24 HOUR FORECAST VALID 0000 UTC FRI OCT 02.
48 HOUR FORECAST VALID 0000 UTC SAT OCT 03.
.WARNINGS.
...ATLC HURRICANE WARNING...
.HURRICANE JOAQUIN NEAR 23.8N 73.1W 951 MB AT 0300 UTC OCT 01
MOVING SW OR 220 DEG AT 5 KT. MAXIMUM SUSTAINED WINDS 100 KT
GUSTS 120 KT. TROPICAL STORM FORCE WINDS WITHIN 80 NM W
SEMICIRCLE...100 NM NE QUADRANT AND 120 NM SE QUADRANT. SEAS 12
FT OR GREATER WITHIN 210 NM NE...160 NM SE...120 NM SW AND 180
NM NW QUADRANTS WITH SEAS TO 30 FT. ELSEWHERE WITHIN 270 NM NE
AND 180 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E
OF BAHAMAS. REMAINDER OF AREA N OF 22N BETWEEN 67W AND 78W WINDS
20 KT OR LESS. SEAS 8 TO 11 FT PRIMARILY IN NE SWELL.
.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 23.6N 74.5W. MAXIMUM
SUSTAINED WINDS 120 KT GUSTS 145 KT. TROPICAL STORM FORCE WINDS

WITHIN 130 NM E SEMICIRCLE...80 NM SW QUADRANT AND 100 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 270 NM NE AND 120 NM SE SEMICIRCLES WITH SEAS TO 36 FT. ELSEWHERE WITHIN 330 NM NE AND 180 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E OF BAHAMAS. REMAINDER OF AREA N OF 22N BETWEEN 67W AND 79W NE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 26.6N 74.7W. MAXIMUM SUSTAINED WINDS 110 KT GUSTS 135 KT. TROPICAL STORM FORCE WINDS WITHIN 180 NM E SEMICIRCLE...100 NM SW QUADRANT AND 140 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 390 NM N AND 210 NM S SEMICIRCLES WITH SEAS TO 42 FT. ELSEWHERE WITHIN 450 NM N AND 300 NM S SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT.

REMAINDER OF AREA N OF 22N W OF 65W NE OF BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 31.6N 74.7W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT.

EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 36.2N 75.6W. MAXIMUM SUSTAINED WINDS 85 KT GUSTS 105 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 38.5N 76.5W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC TROUGH FROM 25N50W TO LOW PRES NEAR 26N57W 1008 MB TO 27N64W. N OF TROUGH BETWEEN 50W AND 64W E WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. WITHIN 60 NM OF LOW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF A LINE FROM 25N50W TO 29N68W WINDS 20 KT OR LESS. SEAS TO 10 FT IN NE SWELL.

.24 HOUR FORECAST TROUGH FROM 26N50W TO LOW PRES NEAR 26N57W 1007 MB TO 26N64W. WITHIN 120 NM N AND 30 NM S SEMICIRCLES OF LOW WINDS 20 TO 25 KT. SEAS 8 TO 10 FT. ELSEWHERE N OF TROUGH BETWEEN 51W AND 62W NE TO E WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. ELSEWHERE N OF 26N BETWEEN 62W AND 67W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 27N57W 1004 MB. WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 12 FT. WITHIN 180 NM SE QUADRANT OF LOW SW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF 27N BETWEEN 51W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER MUNDELL. NATIONAL HURRICANE CENTER.

WTNT31 KNHC 010531
TCPAT1

BULLETIN

HURRICANE JOAQUIN INTERMEDIATE ADVISORY NUMBER 13A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
200 AM EDT THU OCT 01 2015

...JOAQUIN HEADING FOR THE CENTRAL BAHAMAS WITH 120 MPH WINDS...

SUMMARY OF 200 AM EDT...0600 UTC...INFORMATION

LOCATION...23.5N 73.4W
ABOUT 35 MI...55 KM NE OF SAMANA CAYS BAHAMAS
ABOUT 80 MI...125 KM ESE OF SAN SALVADOR BAHAMAS
MAXIMUM SUSTAINED WINDS...120 MPH...195 KM/H
PRESENT MOVEMENT...SW OR 220 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...948 MB...27.99 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Central Bahamas including Cat Island, the Exumas, Long Island, Rum Cay, and San Salvador
- * Northwestern Bahamas including the Abacos, Berry Islands, Eleuthera, Grand Bahama Island, and New Providence

A Hurricane Watch is in effect for...

- * Bimini
- * Andros Island

A Tropical Storm Warning is in effect for...

- * Southeastern Bahamas including the Acklins, Crooked Island, Long Cay, the Inaguas, Mayaguana, and the Ragged Islands, but excluding the Turks and Caicos Islands
- * Andros Island

A Hurricane Warning means that hurricane conditions are expected

somewhere within the warning area. Preparations to protect life and property should have already been completed in the central Bahamas.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 200 AM EDT (0600 UTC), the center of Hurricane Joaquin was located near latitude 23.5 North, longitude 73.4 West. Joaquin is moving toward the southwest near 6 mph (9 km/h), and this general motion is expected to continue through today. A turn toward the northwest and north is forecast Thursday night or Friday. On the forecast track, the center of Joaquin is expected to move near or over portions of the central Bahamas today, and be near or over portions of the northwestern Bahamas Thursday night or Friday.

Data from an Air Force Reserve Hurricane Hunter Aircraft indicate that maximum sustained winds have increased to near 120 mph (195 km/h) with higher gusts. Joaquin is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Additional strengthening is forecast today. Some fluctuations in intensity are possible Thursday night and Friday.

Hurricane force winds extend outward up to 35 miles (55 km) from the center and tropical storm force winds extend outward up to 140 miles (220 km).

The latest minimum central pressure estimated from aircraft data is 948 mb (27.99 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach portions of the central Bahamas in the next few hours and tropical storm conditions are expected soon in the southeastern Bahamas. Hurricane conditions are expected over portions of the northwestern Bahamas Thursday night or Friday.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 5 to 8 feet above normal tide levels in the central Bahamas in areas of onshore flow. A storm surge of 2 to 4 feet above normal tide levels is expected in the northwest Bahamas within the hurricane warning area, and 1 to 2 feet is expected in the southeast Bahamas. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce total rain accumulations of 10 to 15 inches over the central Bahamas and 5 to 10 inches over the northwestern Bahamas and southeastern Bahamas. Isolated maximum amounts of 20 inches are possible in the central Bahamas. This rainfall could result in life-threatening flash floods.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States today. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 500 AM EDT.

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Forecaster Brennan

AXNT20 KNHC 010554
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
205 AM EDT THU OCT 01 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0000 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 0545 UTC.

...SPECIAL FEATURES...

JOAQUIN BECOMES A CATEGORY 3 HURRICANE AS IT MOVES TOWARD THE CENTRAL BAHAMAS. THE CENTER OF JOAQUIN IS LOCATED NEAR 23.8N 73.1W AT 01/0300 UTC OR ABOUT 148 NM E OF THE CENTRAL BAHAMAS MOVING TOWARD THE SOUTHWEST AT 5 KT. THE CENTER OF JOAQUIN IS EXPECTED TO MOVE NEAR OR OVER PORTIONS OF THE CENTRAL BAHAMAS OVERNIGHT AND THU. MAXIMUM SUSTAINED WIND SPEED IS 100 KT WITH GUSTS TO 120 KT. NUMEROUS STRONG CONVECTION IS FROM 22N TO 25N BETWEEN 71W AND 74W. NUMEROUS MODERATE CONVECTION IS ELSEWHERE FROM 20N TO 26N BETWEEN 69W AND 76W. THE OUTER RAINBANDS OF JOAQUIN ARE ALSO AFFECTING EASTERN CUBA...THE WINDWARD PASSAGE AND HISPANIOLA WHERE SCATTERED MODERATE CONVECTION AND TSTMS ARE NOTED IN SATELLITE IMAGERY. JOAQUIN IS EXPECTED TO PRODUCE 10-15 INCHES OF RAIN OVER MUCH OF THE CENTRAL BAHAMAS AND 5-10 INCHES OVER THE SOUTHEASTERN BAHAMAS THROUGH FRI NIGHT. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A 1008 MB LOW PRES IS ANALYZED NEAR 25N56W ALONG WITH AN OLD FRONTAL TROUGH THAT EXTENDS FROM 26N63W TO THE LOW CENTER TO 24N51W. SCATTERED TO ISOLATED MODERATE CONVECTION AND TSTMS ARE FROM 20N TO 29N BETWEEN 48W AND 64W. CLOUDINESS AND TSTMS ASSOCIATED WITH THIS SYSTEM HAVE BECOME A LITTLE BETTER ORGANIZED. ENVIRONMENTAL CONDITIONS ARE EXPECTED TO BE CONDUCIVE FOR A TROPICAL DEPRESSION TO FORM BY THE WEEKEND WHILE THE LOW MOVES SLOWLY NW TO N. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A TROPICAL CYCLONE DURING THE NEXT 48 HOURS.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC MOVING ACROSS THE CAPE VERDE ISLANDS WITH AXIS NEAR 23W...MOVING W AT 5 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB THAT ALONG WITH MIDDLE TO UPPER LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORT SCATTERED MODERATE CONVECTION FROM 10N TO 18N BETWEEN 18W AND 28W.

A TROPICAL WAVE IS IN THE CENTRAL ATLC WITH AXIS NEAR 40W...MOVING W AT 5-10 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB. HOWEVER...SOME DRY AIR INTRUSION IS ALSO DEPICTED IN THE N-NW WAVE ENVIRONMENT...WHERE METEOSAT ENHANCED IMAGERY SHOW DRY AIR AND DUST. STRONG DEEP LAYER WIND SHEAR INFLUENCES LACK OF CONVECTION.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF AFRICA NEAR 14N17W TO 13N23W...THEN RESUMES W OF A TROPICAL WAVE NEAR 12N25W TO 13N39W...RESUMING W OF A SECOND TROPICAL WAVE NEAR 12N41W TO 09N49W. THE ITCZ CONTINUES FROM 09N49W TO 10N61W. FOR CONVECTION INFORMATION SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

A SHARP MIDDLE- TO UPPER-LEVEL TROUGH EXTENDS FROM ILLINOIS TO LOUISIANA SW TO A BASE OVER THE SW GULF OF MEXICO. SW FLOW AHEAD OF THE TROUGH IS ADVECTING ABUNDANT MID TO UPPER-LEVEL MOISTURE FROM SOUTH-CENTRAL MEXICO ALL THE WAY NE TO BEYOND FLORIDA. THE TROUGH ALOFT SUPPORTS A FRONTAL SYSTEM ANALYZED AS A COLD FRONT FROM THE FLORIDA PANHANDLE NEAR 30N87W TO SOUTHERN LOUISIANA NEAR 29N91W TO 29N94W. IT ALSO SUPPORTS A 1009 MB LOW PRES LOCATED NEAR 24N91W WITH A TROUGH EXTENDING NE TO 28N84W. EXCEPT FOR THE SE GULF AND THE YUCATAN CHANNEL...THE CIRA LPW IMAGERY SHOW LOW LEVEL DRY AIR ACROSS THE BASIN THAT ALONG WITH STRONG DEEP LAYER ENVIRONMENTAL WIND SHEAR HINDER CONVECTION. LOOKING AHEAD...THE COLD FRONT IS FORECAST TO REACH THE SE GULF AND START TO DISSIPATE LATE THU. FRESH TO STRONG NORTHERLY WINDS AND BUILDING SEAS ARE EXPECTED IN THE WAKE OF THE FRONT.

CARIBBEAN SEA...

DUE TO THE PRESENCE OF HURRICANE JOAQUIN JUST E OF THE CENTRAL BAHAMAS...MAINLY GENTLE TRADE WINDS ARE NOTED ACROSS THE BASIN WITH THE EXCEPTION OF MODERATE TRADE WINDS OVER THE SOUTH-CENTRAL CARIBBEAN. IN ADDITION...ANOMALOUS SW TO W WINDS ARE SEEN PER SCATTEROMETER DATA OVER MUCH OF THE NW CARIBBEAN... BETWEEN EASTERN CUBA AND JAMAICA AND INTO THE WINDWARD PASSAGE. AS JOAQUIN APPROACHES THE CENTRAL BAHAMAS OVERNIGHT AND THU...THE SW FLOW MAY INCREASE...PARTICULARLY ACROSS THE EASTERN HALF OF CUBA AND REGIONAL WATERS...INCLUDING ALSO THE WINDWARD PASSAGE. THE GFS COMPUTER MODEL SUGGESTS INCREASING WINDS TO 20-25 KT. THE OUTER RAINBANDS OF JOAQUIN REACH EASTERN CUBA...THE WINDWARD PASSAGE AND GREAT PORTIONS OF HISPANIOLA WHERE SCATTERED MODERATE CONVECTION AND TSTMS ARE OBSERVED. IN THE SW BASIN...THE MONSOON TROUGH GENERATES SOME SHOWER AND TSTMS ACTIVITY OVER PARTS OF PANAMA AND COSTA RICA AND ADJACENT WATERS. ALOFT... UPPER-LEVEL NLY FLOW PREVAILS OVER MOST OF THE CENTRAL AND WESTERN CARIBBEAN. AN UPPER-LEVEL TROUGH EXTENDS FROM THE LEEWARD ISLANDS TO THE ABC ISLANDS AND NW VENEZUELA. SW WINDS E OF THE TROUGH AXIS ARE TRANSPORTING ABUNDANT MID-UPPER LEVEL MOISTURE FROM SOUTH AMERICA ACROSS THE WINDWARD ISLANDS INTO THE TROPICAL N ATLC WHERE SOME SHOWER ACTIVITY IS NOTED.

...HISPANIOLA...

THE OUTER RAINBANDS OF HURRICANE JOAQUIN REACH THE NORTHERN AND WESTERN PORTIONS OF THE ISLAND WHERE SCATTERED HEAVY SHOWERS AND TSTMS ARE OBSERVED. SIMILAR ACTIVITY IS EXPECTED TO CONTINUE THROUGH THE NEXT 24 HOURS AS HURRICANE JOAQUIN MOVES SW TOWARD THE BAHAMAS OVERNIGHT AND THU.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLANTIC IS HURRICANE JOAQUIN...PLEASE SEE SPECIAL FEATURES SECTION ABOVE FOR DETAILS. SWELLS GENERATED BY JOAQUIN WILL AFFECT PORTIONS OF THE BAHAMAS DURING THE NEXT FEW DAYS...AND WILL BEGIN TO AFFECT PORTIONS OF THE SOUTHEASTERN COAST OF THE UNITED STATES BY THURSDAY. THESE SWELLS ARE LIKELY TO CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS. TO THE E OF JOAQUIN...A 1008 MB LOW PRES IS NEAR 25N56W ALONG WITH AN OLD FRONTAL TROUGH THAT EXTENDS FROM 26N63W TO THE LOW CENTER TO 24N51W. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A TROPICAL CYCLONE DURING THE NEXT 48 HOURS. PLEASE REFER TO THE SPECIAL FEATURES SECTION FOR MORE DETAILS. A WEAKENING STATIONARY FRONT

ENTERS THE FORECAST AREA NEAR 31N23W THEN CONTINUES SW TO NEAR 28N31W TO 26N38W TO 28N43W. SCATTERED MODERATE CONVECTION IS N OF 25N BETWEEN 21W AND 40W. A WEAK SURFACE RIDGE DOMINATES THE MADEIRA/CANARY ISLANDS.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

AGXX40 KNHC 010625
MIMATS

MARINE WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
225 AM EDT THU OCT 1 2015

MARINE WEATHER DISCUSSION FOR THE GULF OF MEXICO...CARIBBEAN
SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND
64W...AND THE SW N ATLANTIC INCLUDING THE BAHAMAS.

...GULF OF MEXICO...

MODEL PREFERENCE: 12Z GFS BLENDED WITH PREVIOUS OFFICIAL. FOR
WAVE HEIGHTS USED LATEST TAFB NWPS WAVE PARAMETERS. HIGH
CONFIDENCE.

A SURFACE TROUGH EXTENDS FROM THE FLORIDA PANHANDLE TO THE
CENTRAL
GULF WHILE A COLD FRONT IS JUST MOVING INTO THE NORTHERN GULF
WATERS. LATEST SATELLITE DERIVED WINDS AND SEAS ALONG WITH
SHIP... BUOY...AND CMAN DATA DEPICT MODERATE TO LOCALLY FRESH
WINDS OVER THE WATERS W OF THE TROUGH AND GENTLE TO MODERATE
WINDS
ELSEWHERE. SEAS ARE IN THE 3-5 FT RANGE OVER THE NW WATERS...2-3
FT OVER THE SW WATERS AND 1-2 FT OVER THE EASTERN WATERS. THE COLD
FRONT WILL CONTINUE TO SHIFT ACROSS THE GULF WATERS THROUGH FRI
BEFORE STALLING OVER THE SE WATERS FRI NIGHT AND DISSIPATING
THROUGH SAT.

...CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN
55W AND 64W...

MODEL PREFERENCE: 12Z GFS BLENDED WITH PREVIOUS OFFICIAL. FOR
WAVE HEIGHTS USED LATEST TAFB NWPS WAVE PARAMETERS. MEDIUM TO
HIGH CONFIDENCE.

WEAK HIGH PRESSURE PREVAILS OVER THE NW CARIBBEAN. LATEST
SATELLITE DERIVED WINDS AND SEAS ALONG WITH SHIP...BUOY...AND
CMAN DATA DEPICT LIGHT TO GENTLE WINDS ACROSS MUCH OF THE
CARIBBEAN...EXCEPT TO MODERATE OVER THE SE CARIBBEAN...AND LIGHT
TO GENTLE WINDS OVER THE TROPICAL N ATLC WATERS. SEAS ARE IN THE
2-4 FT RANGE OVER THE E CARIBBEAN...2-3 FT OVER THE CENTRAL
CARIBBEAN...1-2 FT OVER THE WESTERN CARIBBEAN...AND 4-5 FT OVER
THE TROPICAL N ATLC WATERS. HURRICANE JOAQUIN OVER THE SW N ATLC
WATERS HAS REPLACED THE RIDGE THAT IS TYPICALLY OVER THESE WATERS.

THIS IS RESULTING IN A WEAKER PRESSURE GRADIENT PRODUCING TRADE WIND FLOW THAT IS WELL BELOW NORMAL LEVELS. THE WIND FLOW AROUND HURRICANE JOAQUIN NEAR THE BAHAMAS IS RESULTING IN ANOMALOUS WINDS

WITH A WESTERLY COMPONENT OVER MUCH OF THE NW CARIBBEAN. THIS MAY CONTINUE FOR MUCH OF THE FORECAST PERIOD. THE LOWER CONFIDENCE IN THIS FORECAST IS RELATED TO UNCERTAINTY WITH THE TRACK OF HURRICANE JOAQUIN AFTER DAY 3 WHICH WILL HAVE AN IMPACT ON WINDS AND SEAS ACROSS THE CARIBBEAN WATERS.

...SW N ATLANTIC INCLUDING THE BAHAMAS...

MODEL PREFERENCE: GLOBAL MODEL CONSENSUS AND OFFICIAL NHC FORECAST FOR JOAQUIN WINDS. USED LATEST TAFB NWPS WAVE PARAMETERS FOR WAVE HEIGHTS. MEDIUM CONFIDENCE.

HURRICANE JOAQUIN WAS CENTERED NEAR NEAR 23.8N 73.1W AT 01/0300Z WITH WINDS OF 100 KT WITH GUSTS TO 120 KT. WIND FLOW OVER THE AREA IS DOMINATED BY HURRICANE JOAQUIN WITH MODERATE TO FRESH CYCLONIC WINDS ACROSS THE AREA OUTSIDE OF THE SYSTEM. HURRICANE JOAQUIN IS FORECAST TO CONTINUE TO INTENSIFY THROUGH EARLY FRIDAY BEFORE STARTING TO WEAKEN. WITH THE STRENGTHENING OF JOAQUIN OVER THE NEXT FEW DAYS... EXPECT LARGE SEAS TO EXPAND OUTWARD FROM JOAQUIN AFFECTING THE VAST MAJORITY OF THE BASIN. FORECAST CONDITIONS AND TRACK IS SUBJECT TO CHANGE...AND REFER TO THE MOST RECENT ADVISORY FOR THE MOST UP TO DATE INFORMATION. JOAQUIN IS CURRENTLY FORECAST TO SHIFT N OF THE AREA SAT NIGHT. AS THE SYSTEM MOVES FURTHER FROM THE AREA...EXPECT CONDITIONS TO START TO IMPROVE SUN INTO EARLY NEXT WEEK.

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.WARNINGS...ANY CHANGES IMPACTING COASTAL NWS OFFICES WILL BE COORDINATED THROUGH AWIPS 12 PLANET CHAT OR BY TELEPHONE:

.GULF OF MEXICO...

NONE.

.CARIBBEAN SEA AND TROPICAL N ATLANTIC FROM 07N TO 19N BETWEEN 55W AND 64W...

NONE.

.SW N ATLANTIC INCLUDING THE BAHAMAS...

.AMZ113...ATLANTIC FROM 27N TO 31N BETWEEN 70W AND 77W...

TROPICAL STORM WARNING FRI.

HURRICANE WARNING FRI NIGHT.

.AMZ117...BAHAMAS INCLUDING CAY SAL BANK...

TROPICAL STORM WARNING EARLY TODAY.

HURRICANE WARNING TODAY INTO FRI.

TROPICAL STORM WARNING FRI NIGHT.

.AMZ119...ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W...

HURRICANE WARNING EARLY TODAY INTO FRI NIGHT.

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*FOR DETAILED ZONE DESCRIPTIONS PLEASE VISIT:

[HTTP://WWW.NHC.NOAA.GOV/ABOUTTAFBPROD.SHTML#OWF](http://www.nhc.noaa.gov/abouttafbprod.shtml#owf)

NOTE: GRIDDED MARINE FORECASTS ARE AVAILABLE IN THE
NATIONAL DIGITAL FORECAST DATABASE (NDFD) AT:

[HTTP://WWW.NHC.NOAA.GOV/MARINE/GRIDS.PHP](http://www.nhc.noaa.gov/marine/grids.php)

FOR ADDITIONAL INFORMATION PLEASE VISIT:

[HTTP://WWW.HURRICANE WARNINGS.GOV/MARINE](http://www.hurricanewarnings.gov/marine)

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.FORECASTER AL. NATIONAL HURRICANE CENTER.

FKNT21 KNHC 010843
TCANT1

HURRICANE JOAQUIN ICAO ADVISORY NUMBER 14
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC THU OCT 01 2015

TC ADVISORY

DTG: 20151001/0900Z
TCAC: KNHC
TC: JOAQUIN
NR: 014
PSN: N2324 W07342
MOV: WSW 04KT
C: 0948HPA
MAX WIND: 105KT
FCST PSN + 06 HR: 011500 N2312 W07402
FCST MAX WIND + 06 HR: 110KT
FCST PSN + 12 HR: 012100 N2310 W07421
FCST MAX WIND + 12 HR: 115KT
FCST PSN + 18 HR: 020300 N2319 W07439
FCST MAX WIND + 18 HR: 120KT
FCST PSN + 24 HR: 020900 N2348 W07448
FCST MAX WIND + 24 HR: 120KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20151001/1500Z

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WTNT21 KNHC 010843
TCMAT1

HURRICANE JOAQUIN FORECAST/ADVISORY NUMBER 14
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
0900 UTC THU OCT 01 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

- * CENTRAL BAHAMAS
- * NORTHWESTERN BAHAMAS INCLUDING THE ABACOS...BERRY ISLANDS...
ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE

A HURRICANE WATCH IS IN EFFECT FOR...

- * BIMINI
- * ANDROS ISLAND

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * SOUTHEASTERN BAHAMAS EXCLUDING THE TURKS AND CAICOS ISLANDS
- * ANDROS ISLAND

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA. PREPARATIONS TO PROTECT LIFE
AND
PROPERTY SHOULD BE RUSHED TO COMPLETION IN THE NORTHWESTERN
BAHAMAS.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE
WITHIN THE WATCH AREA.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE
EXPECTED SOMEWHERE WITHIN THE WARNING AREA.

HURRICANE CENTER LOCATED NEAR 23.4N 73.7W AT 01/0900Z
POSITION ACCURATE WITHIN 25 NM

PRESENT MOVEMENT TOWARD THE WEST-SOUTHWEST OR 240 DEGREES AT 4
KT

ESTIMATED MINIMUM CENTRAL PRESSURE 948 MB
MAX SUSTAINED WINDS 105 KT WITH GUSTS TO 130 KT.

64 KT..... 25NE 30SE 20SW 20NW.
50 KT..... 40NE 60SE 30SW 40NW.
34 KT.....100NE 120SE 100SW 80NW.
12 FT SEAS..220NE 180SE 100SW 180NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 23.4N 73.7W AT 01/0900Z
AT 01/0600Z CENTER WAS LOCATED NEAR 23.5N 73.5W

FORECAST VALID 01/1800Z 23.1N 74.2W
MAX WIND 115 KT...GUSTS 140 KT.
64 KT... 35NE 40SE 20SW 20NW.
50 KT... 60NE 70SE 40SW 60NW.
34 KT...120NE 130SE 100SW 90NW.

FORECAST VALID 02/0600Z 23.4N 74.8W
MAX WIND 120 KT...GUSTS 145 KT.
64 KT... 40NE 40SE 30SW 30NW.
50 KT... 70NE 80SE 50SW 50NW.
34 KT...140NE 150SE 100SW 100NW.

FORECAST VALID 02/1800Z 25.0N 74.8W
MAX WIND 120 KT...GUSTS 145 KT.
64 KT... 50NE 50SE 40SW 40NW.
50 KT... 70NE 80SE 60SW 60NW.
34 KT...150NE 150SE 100SW 120NW.

FORECAST VALID 03/0600Z 26.8N 74.1W
MAX WIND 110 KT...GUSTS 135 KT.
50 KT... 80NE 90SE 60SW 70NW.
34 KT...180NE 190SE 120SW 140NW.

FORECAST VALID 04/0600Z 32.5N 74.0W
MAX WIND 95 KT...GUSTS 115 KT.
50 KT... 90NE 90SE 60SW 70NW.
34 KT...230NE 190SE 100SW 150NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150
NM
ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 05/0600Z 36.0N 74.5W
MAX WIND 80 KT...GUSTS 100 KT.

OUTLOOK VALID 06/0600Z 39.0N 74.0W

MAX WIND 60 KT...GUSTS 75 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 23.4N 73.7W

NEXT ADVISORY AT 01/1500Z

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FORECASTER BRENNAN

WTNT31 KNHC 010845
TCPAT1

BULLETIN
HURRICANE JOAQUIN ADVISORY NUMBER 14
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT THU OCT 01 2015

...MAJOR HURRICANE JOAQUIN WILL BATTER THE CENTRAL BAHAMAS WITH
HURRICANE FORCE WINDS...STORM SURGE...AND HEAVY RAIN THROUGH
TONIGHT...

SUMMARY OF 500 AM EDT...0900 UTC...INFORMATION

LOCATION...23.4N 73.7W
ABOUT 20 MI...35 KM N OF SAMANA CAYS BAHAMAS
ABOUT 65 MI...105 KM SE OF SAN SALVADOR BAHAMAS
MAXIMUM SUSTAINED WINDS...120 MPH...195 KM/H
PRESENT MOVEMENT...WSW OR 240 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...948 MB...27.99 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Central Bahamas
- * Northwestern Bahamas including the Abacos, Berry Islands,
Eleuthera, Grand Bahama Island, and New Providence

A Hurricane Watch is in effect for...

- * Bimini
- * Andros Island

A Tropical Storm Warning is in effect for...

- * Southeastern Bahamas excluding the Turks and Caicos Islands
- * Andros Island

A Hurricane Warning means that hurricane conditions are expected
somewhere within the warning area. Preparations to protect life and

property should be complete in the central Bahamas.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 AM EDT (0900 UTC), the center of Hurricane Joaquin was located near latitude 23.4 North, longitude 73.7 West. Joaquin is moving toward the west-southwest near 5 mph (7 km/h), and this motion is expected to continue today. A turn toward the west-northwest is forecast tonight, followed by a turn toward the north and an increase in forward speed on Friday. On the forecast track, the center of Joaquin will move near or over portions of the central Bahamas today and tonight and pass near or over portions of the northwestern Bahamas on Friday.

Maximum sustained winds are near 120 mph (195 km/h) with higher gusts. Joaquin is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some strengthening is forecast in the next day or so, with some fluctuations in intensity possible on Friday.

Hurricane force winds extend outward up to 35 miles (55 km) from the center and tropical storm force winds extend outward up to 140 miles (220 km).

The estimated minimum central pressure is 948 mb (27.99 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to continue in portions of the central Bahamas through Friday. Hurricane conditions are expected over portions of the northwestern Bahamas on Friday. Tropical storm conditions will affect portions of the southeastern Bahamas through tonight.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 5 to 8 feet above normal tide levels in the central Bahamas

in areas of onshore flow. A storm surge of 2 to 4 feet above normal tide levels is expected in the northwest Bahamas within the hurricane warning area, and 1 to 2 feet is expected in the southeast Bahamas. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce total rain accumulations of 10 to 15 inches over the central Bahamas with isolated maximum amounts of 20 inches are possible. Rainfall amounts of 5 to 10 inches are expected over the southeastern Bahamas with 2 to 4 inches over the northwestern Bahamas. This rainfall could result in life-threatening flash floods.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States today and spread northward through the weekend. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 800 AM EDT.

Next complete advisory at 1100 AM EDT.

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Forecaster Brennan

WTNT41 KNHC 010849
TCDAT1

HURRICANE JOAQUIN DISCUSSION NUMBER 14
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
500 AM EDT THU OCT 01 2015

Data from the last aircraft mission indicated the Joaquin had strengthened a little more, and the intensity of 105 kt is supported by flight-level, SFMR, and dropsonde data from the plane. The central pressure of 948 mb is based on a dropsonde that measured 950 mb with 20 kt of wind. The satellite presentation of the hurricane continues to gradually improve, with cold tops expanding near and west of the center, although the eye is not yet apparent in infrared imagery. Another hurricane hunter aircraft will be investigating Joaquin later this morning.

Joaquin is expected to intensify a little more in the next 12 to 24 hours while over very warm waters and with decreasing vertical shear. After that time, there could be some fluctuations in intensity due to eyewall replacement cycles and perhaps some upwelling of cold waters due to the slow motion of the hurricane. After 48 hours, cooler SSTs and increasing shear should result in gradual weakening as Joaquin moves northward. The new NHC intensity forecast is similar to the previous one and close to the HWRF through 24 hours. After that time, the NHC prediction is above the intensity consensus since the official forecast keeps the cyclone offshore, while the remainder of the intensity guidance shows weakening due to decay over land.

The initial motion of the hurricane is still toward the southwest or 230/04 under the influence of a narrow ridge to the north. A slow motion with a bending of the track toward the west and then the west-northwest is expected during the next 24 hours as the ridge weakens. During this time the NHC track has been adjusted southward following the latest trend in the guidance. The slow motion of Joaquin will mean a prolonged period of hurricane conditions in portions of the central Bahamas, along with very heavy rain and storm surge.

By 36 hours, Joaquin should begin to move faster toward the north as it comes under the influence of a deep-layer trough that cuts off over the southeastern United States. There have been big changes in some of the track guidance overnight, perhaps due to data from the synoptic surveillance mission flown by the NOAA G-IV jet for the 00Z model cycle. In particular, the GFS and UKMET have shifted eastward

by several hundred miles in 3 to 4 days relative to their previous solutions. Overall for this cycle there has been a spreading out of the guidance envelope beyond 2 days, with a wide range of solutions shown. The HWRF and GFDL are the fastest to bring Joaquin north out of the Bahamas and still show a sharp westward turn taking the cyclone inland over the Carolinas in 3 to 4 days. The GFS has trended slower coming out of the Bahamas and now shows a track toward Long Island and southern New England in 5 days, with the UKMET farther offshore. The latest ECMWF is still the slowest and farthest east with a track just west of Bermuda in 4 to 5 days. Given the large shift in some of the guidance, the NHC track has been adjusted just a little to the east and slower at days 3 through 5, and now lies on the left side of the multi-model consensus and left of the GFS, UKMET and ECMWF solutions. Confidence remains very low in the eventual track of Joaquin and any potential impacts for the United States, and further adjustments to the NHC track may be needed later today.

KEY MESSAGES:

1. Preparations to protect life and property in the central Bahamas should be complete. The slow motion of Joaquin during the next 24 to 36 hours will bring a prolonged period of hurricane force winds, storm surge, and very heavy rainfall to those islands.
2. Confidence in the details of the forecast after 72 hours remains low, as there have been some large changes in the model guidance overnight. The range of possible outcomes is still large, and the possibility of a hurricane landfall in the Carolinas still cannot be ruled out.
3. Efforts continue to provide the forecast models with as much data as possible. The NOAA G-IV jet flew the first in a series of missions in the storm environment last night, and these missions will continue today. The National Weather Service also continues to launch extra balloon soundings.
4. Because landfall, if it occurs, is still more than three days away, it's too early to talk about specific wind, rain, or surge impacts from Joaquin in the United States. Regardless of Joaquin's track, strong onshore winds will create minor to moderate coastal flooding along the coasts of the mid-Atlantic and northeastern states through the weekend.
5. A hurricane watch for a portion of the U.S. coast could be required as early as tonight.

6. Many portions of the eastern U.S. are currently experiencing heavy rains and gusty winds associated with a frontal system. These heavy rains are likely to continue for the next few days, even if the center of Joaquin stays offshore. The resulting inland flood potential could complicate preparations for Joaquin should it head toward the coast, and even more substantial inland flooding is possible if Joaquin later passes near or over these same areas.

FORECAST POSITIONS AND MAX WINDS

INIT	01/0900Z	23.4N	73.7W	105 KT	120 MPH
12H	01/1800Z	23.1N	74.2W	115 KT	130 MPH
24H	02/0600Z	23.4N	74.8W	120 KT	140 MPH
36H	02/1800Z	25.0N	74.8W	120 KT	140 MPH
48H	03/0600Z	26.8N	74.1W	110 KT	125 MPH
72H	04/0600Z	32.5N	74.0W	95 KT	110 MPH
96H	05/0600Z	36.0N	74.5W	80 KT	90 MPH
120H	06/0600Z	39.0N	74.0W	60 KT	70 MPH

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Forecaster Brennan

FZNT02 KNHC 010901
HSFAT2

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1030 UTC THU OCT 01 2015

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC THU OCT 01.
24 HOUR FORECAST VALID 0600 UTC FRI OCT 02.
48 HOUR FORECAST VALID 0600 UTC SAT OCT 03.

.WARNINGS.

...HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 23.4N 73.7W 948 MB AT 0900 UTC OCT 01 MOVING WSW OR 240 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 105 KT GUSTS 130 KT. TROPICAL STORM FORCE WINDS WITHIN 100 NM NE AND SW QUADRANTS...80 NM NW QUADRANT AND 120 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 180 NM NW AND SE QUADRANTS...220 NM NE QUADRANT AND 100 NM SW QUADRANT WITH SEAS TO 36 FT. ELSEWHERE WITHIN 270 NM NE AND 180 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E OF BAHAMAS. REMAINDER OF AREA N OF 21.5N BETWEEN 67W AND 78W AND OUTSIDE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 23.4N 74.8W. MAXIMUM SUSTAINED WINDS 120 KT GUSTS 145 KT. TROPICAL STORM FORCE WINDS WITHIN 100 NM W SEMICIRCLE...140 NM NE QUADRANT AND 150 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 330 NM NE AND 60 NM SW SEMICIRCLES WITH SEAS TO 40 FT. ELSEWHERE WITHIN 360 NM NE AND 180 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E OF BAHAMAS. REMAINDER OF AREA N OF 22N BETWEEN 67W AND 80W AND OUTSIDE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 26.8N 74.1W. MAXIMUM SUSTAINED WINDS 110 KT GUSTS 135 KT. TROPICAL STORM FORCE WINDS

WITHIN 180 NM NE QUADRANT...190 NM SE QUADRANT...120 NM SW QUADRANT...AND 140 NM NW QUADRANT. SEAS 12 FT OR GREATER OVER FORECAST WATERS WITHIN 390 NM NW AND 150 NM SW SEMICIRCLES WITH SEAS TO 44 FT. ELSEWHERE OVER FORECAST WATERS WITHIN 420 NM NE AND 300 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 22N W OF 65W AND OUTSIDE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.
.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 32.5N 74.0W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 36.0N 74.5W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.
.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 39.0N 74.0W. MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC TROUGH FROM 25N52W TO LOW PRES NEAR 26N57W 1008 MB TO 27N63W. N OF TROUGH BETWEEN 51W AND 62W E WINDS 20 TO 30 KT. SEAS 8 TO 11 FT. ELSEWHERE N OF 26N BETWEEN 50W AND 67W WINDS 20 KT OR LESS. SEAS TO 10 FT IN NE SWELL.

.24 HOUR FORECAST TROUGH FROM 27N48W TO LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 26N56W 1007 MB TO 24N62W. N OF TROUGH BETWEEN 50W AND 60W WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. S OF TROUGH BETWEEN 52W AND 57W SW TO W WINDS 20 TO 25 KT. SEAS TO 8 FT. ELSEWHERE N OF 26N BETWEEN 50W AND 67W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 28N57W 1004 MB. OVER FORECAST WATERS WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 12 FT. WITHIN 180 NM SE QUADRANT OF LOW SW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER AL. NATIONAL HURRICANE CENTER.

FZNT23 KNHC 010917
OFFNT3

OFFSHORE WATERS FORECAST FOR THE SW AND TROPICAL N ATLANTIC AND
CARIBBEAN SEA
NWS NATIONAL HURRICANE CENTER MIAMI FL
517 AM EDT THU OCT 1 2015

OFFSHORE WATERS FORECAST FOR THE TROPICAL N ATLANTIC FROM 07N TO
22N BETWEEN 55W AND 64W...THE SW N ATLANTIC S OF 31N W OF 65W
INCLUDING BAHAMAS...AND THE CARIBBEAN SEA.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

AMZ117-012130-
BAHAMAS INCLUDING CAY SAL BANK-
517 AM EDT THU OCT 1 2015

...HURRICANE WARNING...

.TODAY...HURRICANE CONDITIONS. ATLC EXPOSURES...N TO NE WINDS
75 TO 95 KT. ELSEWHERE...NW WINDS 35 TO 40 KT...INCREASING TO
65 TO 75 KT IN THE AFTERNOON. SEAS 30 TO 32 FT ATLC EXPOSURES...
AND 10 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.TONIGHT...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... NE
TO E WINDS 80 TO 100 KT. ELSEWHERE...NW WINDS 65 TO 75 KT...
INCREASING TO 80 TO 90 KT LATE. SEAS 34 FT ATLC
EXPOSURES...AND 10 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED
TSTMS.
.FRI...HURRICANE CONDITIONS EXPECTED. ATLC EXPOSURES... NE TO E
WINDS 80 TO 100 KT...SHIFTING TO W IN THE AFTERNOON. ELSEWHERE...
W TO NW WINDS 75 TO 90 KT. SEAS 33 TO 34 FT ATLC EXPOSURES...AND
9 TO 10 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.FRI NIGHT...TROPICAL STORM CONDITIONS EXPECTED. ATLC
EXPOSURES...W WINDS 80 TO 100 KT...BECOMING SW TO W 35 TO 45 KT
LATE. ELSEWHERE...W WINDS 45 TO 50 KT...DIMINISHING TO
30 TO 35 KT LATE. SEAS 22 TO 26 FT ATLC EXPOSURES...
AND 8 TO 9 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.
.SAT...SW TO W WINDS 25 TO 30 KT. SEAS 12 TO 15 FT ATLC
EXPOSURES...AND 7 FT ELSEWHERE.
.SAT NIGHT...SW TO W WINDS 20 TO 25 KT...DIMINISHING TO 15 TO
20 KT LATE. SEAS 9 TO 11 FT ATLC EXPOSURES...AND 5 TO
6 FT ELSEWHERE.
.SUN...SW TO W WINDS 15 TO 20 KT. SEAS 7 TO 8 FT ATLC

EXPOSURES...AND 4 FT ELSEWHERE.

.SUN NIGHT...SW WINDS 15 TO 20 KT. SEAS 5 FT.

.MON...SW TO W WINDS 15 TO 20 KT. SEAS 4 FT.

.MON NIGHT...W WINDS 10 TO 15 KT...BECOMING S TO SW 5 TO 10 KT
LATE. SEAS 3 FT.

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AMZ119-012130-

ATLANTIC FROM 22N TO 27N E OF BAHAMAS TO 70W-
517 AM EDT THU OCT 1 2015

...HURRICANE WARNING...

.TODAY...HURRICANE CONDITIONS EXPECTED. N OF 25N...E TO SE WINDS
30 TO 35 KT. SEAS 16 TO 17 FT. ELSEWHERE...SE TO S WINDS 65 TO

85 KT. SEAS 25 TO 26 FT. SCATTERED SHOWERS AND ISOLATED TSTMS.

.TONIGHT...TROPICAL STORM CONDITIONS EXPECTED. N OF 25N...E TO
SE WINDS 30 TO 40 KT. SEAS 20 TO 25 FT. ELSEWHERE...SE TO S
WINDS 45 TO 55 KT. SEAS 26 FT. SCATTERED SHOWERS AND ISOLATED
TSTMS.

.FRI...HURRICANE CONDITIONS EXPECTED. N OF 25N...E TO SE WINDS
50 TO 60 KT...BECOMING SE 85 TO 105 KT IN THE AFTERNOON.

ELSEWHERE...S WINDS 80 TO 100 KT. SEAS 32 TO 39 FT N OF 25N...

AND 22 TO 26 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.

.FRI NIGHT...HURRICANE CONDITIONS EXPECTED. N OF 25N... SE TO S
WINDS 85 TO 105 KT...SHIFTING TO S TO SW 80 TO 100 KT LATE.

ELSEWHERE...S TO SW WINDS 80 TO 100 KT...DIMINISHING

TO 40 TO 45 KT LATE. SEAS 35 TO 39 FT N OF 25N...AND

15 TO 18 FT ELSEWHERE. SCATTERED SHOWERS AND ISOLATED TSTMS.

.SAT...HURRICANE CONDITIONS POSSIBLE. N OF 25N...SW WINDS 75 TO
95 KT...DIMINISHING TO 35 TO 40 KT IN THE AFTERNOON. ELSEWHERE...
S TO SW WINDS 25 TO 30 KT. SEAS 17 TO 21 FT N OF 25N...AND 13 TO
15 FT ELSEWHERE.

.SAT NIGHT...SW WINDS 25 TO 30 KT...DIMINISHING TO 20 TO 25 KT
LATE. SEAS 12 TO 15 FT N OF 25N... AND 10 TO 12 FT
ELSEWHERE.

.SUN...SW WINDS 20 TO 25 KT...BECOMING SW TO W 15 TO 20 KT IN
THE AFTERNOON. SEAS 8 TO 10 FT.

.SUN NIGHT...SW WINDS 15 TO 20 KT. SEAS 7 FT.

.MON...SW WINDS 15 TO 20 KT. SEAS 6 FT.

.MON NIGHT...SW WINDS 10 TO 15 KT...BECOMING S TO SW 5 TO 10 KT
LATE. SEAS 4 TO 6 FT IN NW TO N SWELL.

WTNT61 KNHC 010935
TCUAT1

HURRICANE JOAQUIN TROPICAL CYCLONE UPDATE
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
535 AM EDT THU OCT 1 2015

At 535 AM EDT (0935 UTC) the Government of the Bahamas has issued a Hurricane Warning for the Acklins, Crooked Island, and Mayaguana in the southeastern Bahamas.

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Forecaster Brennan

FZNT01 KWBC 011000

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

1030 UTC THU OCT 01 2015

CCODE/2:31:04:11:00/AOW+AOE/NWS/CCODE

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PAN PAN

NORTH ATLANTIC NORTH OF 31N TO 67N AND WEST OF 35W

SYNOPSIS VALID 0600 UTC OCT 01

24 HOUR FORECAST VALID 0600 UTC OCT 02

48 HOUR FORECAST VALID 0600 UTC OCT 03

.WARNINGS.

...GALE WARNING...

.LOW 47N63W 1006 MB MOVING NE 20 KT. WITHIN 120 NM N SEMICIRCLE WINDS 25 TO 35 KT. SEAS TO 10 FT. ELSEWHERE W OF A LINE FROM 50N56W TO 40N60W...AND S OF 40N BETWEEN 60W AND 70W...ALSO S OF A LINE FROM 34N60W TO 31N55W...AND W OF A LINE FROM 40N70W TO 38N72W WINDS 20 TO 30 KT. SEAS TO 12 FT.

.24 HOUR FORECAST LOW 52N52W 1011 MB. WITHIN 240 NM NW SEMICIRCLE WINDS 25 TO 40 KT. SEAS 9 TO 15 FT. ELSEWHERE WITHIN 240 NM SE SEMICIRCLE AND 360 NM W QUADRANT WINDS 20 TO 30 KT. SEAS TO 10 FT.

.48 HOUR FORECAST LOW 52N46W 1005 MB. WITHIN 300 NM W AND 240 NM N QUADRANTS WINDS 25 TO 40 KT. SEAS 10 TO 17 FT. ELSEWHERE WITHIN 300 NM NW SEMICIRCLE AND FROM 48N TO 58N BETWEEN 46W AND 56W...ALSO FROM 44N TO 50N BETWEEN 50W AND 64W WINDS 20 TO 30 KT. SEAS TO 12 FT.

...GALE WARNING...

.LOW 64N39W 1002 MB MOVING NE 10 KT. BETWEEN 59N AND 61N E OF 43W WINDS 25 TO 35 KT. SEAS TO 12 FT. ELSEWHERE FROM 58N TO 62N E OF 44W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.24 HOUR FORECAST LOW DISSIPATED. FROM 62N TO 65N BETWEEN 36W AND 40W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.48 HOUR FORECAST NEW LOW 66N35W 1001 MB. WITHIN 180 NM SW QUADRANT WINDS 20 TO 30 KT. SEAS TO 8 FT.

...GALE WARNING...

.24 HOUR FORECAST N OF 64N W OF GREENLAND WINDS 20 TO 30 KT. SEAS TO 9 FT.

.48 HOUR FORECAST FROM 63N TO 65N W OF 60W WINDS 25 TO 35 KT. SEAS TO 12 FT. ELSEWHERE N OF 60N W OF 52W WINDS 20 TO 30 KT. SEAS TO 9 FT.

...GALE WARNING...

.24 HOUR FORECAST OVER FORECAST WATERS W OF A LINE FROM 41N68W TO 36N74W WINDS 25 TO 35 KT. SEAS 10 TO 14 FT.

.48 HOUR FORECAST W OF A LINE FROM 43N68W TO 40N70W TO 38N73W WINDS 25 TO 35 KT. SEAS 9 TO 15 FT.

.SYNOPSIS AND FORECAST.

.LOW E OF AREA 38N30W 1002 MB MOVING N 5 KT. OVER FORECAST WATERS WITHIN 480 NM NW QUADRANT WINDS 20 TO 30 KT. SEAS TO 13 FT.

.24 HOUR FORECAST LOW E OF AREA 40N30W 1001 MB. WITHIN 420 NM NW QUADRANT WINDS TO 25 KT. SEAS TO 11 FT.

.48 HOUR FORECAST LOW E OF AREA WITHIN CONDITIONS DIMINISHED.

.48 HOUR FORECAST FROM 58N TO 61N BETWEEN 42W AND 50W WINDS 20 TO 30 KT. SEAS TO 10 FT.

.48 HOUR FORECAST S OF 36N W OF 67W WINDS 20 TO 30 KT. SEAS 9 TO 16 FT.

.48 HOUR FORECAST S OF 33N BETWEEN 53W AND 60W WINDS 20 TO 30 KT. SEAS 9 TO 13 FT.

.DENSE FOG. VSBY OCCASIONALLY LESS THAN 1 NM OVER FORECAST WATERS FROM 46N TO 51N BETWEEN 46W AND 52W.

.24 HOUR FORECAST DENSE FOG FROM 48N TO 53N BETWEEN 46W AND 53W.

.48 HOUR FORECAST CONDITIONS IMPROVED.

.HIGH 54N56W 1029 MB MOVING E 15 KT.

.24 HOUR FORECAST HIGH DISSIPATED.

.24 HOUR FORECAST HIGH 45N49W 1024 MB.

.48 HOUR FORECAST HIGH 40N53W 1021 MB.

.FORECASTER SHAW. OCEAN PREDICTION CENTER.

NATIONAL HURRICANE CENTER MIAMI FL

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO.

SYNOPSIS VALID 0600 UTC THU OCT 01.

24 HOUR FORECAST VALID 0600 UTC FRI OCT 02.

48 HOUR FORECAST VALID 0600 UTC SAT OCT 03.

.WARNINGS.

...HURRICANE WARNING...

.HURRICANE JOAQUIN NEAR 23.4N 73.7W 948 MB AT 0900 UTC OCT 01 MOVING WSW OR 240 DEG AT 4 KT. MAXIMUM SUSTAINED WINDS 105 KT GUSTS 130 KT. TROPICAL STORM FORCE WINDS WITHIN 100 NM NE AND SW QUADRANTS...80 NM NW QUADRANT AND 120 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 180 NM NW AND SE QUADRANTS...220 NM NE QUADRANT AND 100 NM SW QUADRANT WITH SEAS TO 36 FT. ELSEWHERE WITHIN 270 NM NE AND 180 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E OF BAHAMAS. REMAINDER OF AREA N OF 21.5N BETWEEN 67W AND 78W AND OUTSIDE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.24 HOUR FORECAST HURRICANE JOAQUIN NEAR 23.4N 74.8W. MAXIMUM SUSTAINED WINDS 120 KT GUSTS 145 KT. TROPICAL STORM FORCE WINDS

WITHIN 100 NM W SEMICIRCLE...140 NM NE QUADRANT AND 150 NM SE QUADRANT. SEAS 12 FT OR GREATER WITHIN 330 NM NE AND 60 NM SW SEMICIRCLES WITH SEAS TO 40 FT. ELSEWHERE WITHIN 360 NM NE AND 180 SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT E OF BAHAMAS. REMAINDER OF AREA N OF 22N BETWEEN 67W AND 80W AND OUTSIDE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.48 HOUR FORECAST HURRICANE JOAQUIN NEAR 26.8N 74.1W. MAXIMUM SUSTAINED WINDS 110 KT GUSTS 135 KT. TROPICAL STORM FORCE WINDS WITHIN 180 NM NE QUADRANT...190 NM SE QUADRANT...120 NM SW QUADRANT...AND 140 NM NW QUADRANT. SEAS 12 FT OR GREATER OVER FORECAST WATERS WITHIN 390 NM NW AND 150 NM SW SEMICIRCLES WITH SEAS TO 44 FT. ELSEWHERE OVER FORECAST WATERS WITHIN 420 NM NE AND 300 NM SW SEMICIRCLES WINDS 20 TO 33 KT. SEAS 8 TO 12 FT. REMAINDER OF AREA N OF 22N W OF 65W AND OUTSIDE OF THE BAHAMAS WINDS 20 KT OR LESS. SEAS 8 TO 11 FT IN MIXED SWELL.

.72 HOUR FORECAST HURRICANE JOAQUIN NEAR 32.5N 74.0W. MAXIMUM SUSTAINED WINDS 95 KT GUSTS 115 KT. EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.

.96 HOUR FORECAST HURRICANE JOAQUIN NEAR 36.0N 74.5W. MAXIMUM SUSTAINED WINDS 80 KT GUSTS 100 KT.

.120 HOUR FORECAST TROPICAL STORM JOAQUIN NEAR 39.0N 74.0W. MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC TROUGH FROM 25N52W TO LOW PRES NEAR 26N57W 1008 MB TO 27N63W. N OF TROUGH BETWEEN 51W AND 62W E WINDS 20 TO 30 KT. SEAS 8 TO 11 FT. ELSEWHERE N OF 26N BETWEEN 50W AND 67W WINDS 20 KT OR LESS. SEAS TO 10 FT IN NE SWELL.

.24 HOUR FORECAST TROUGH FROM 27N48W TO LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 26N56W 1007 MB TO 24N62W. N OF TROUGH BETWEEN 50W AND 60W WINDS 20 TO 30 KT. SEAS 8 TO 12 FT. S OF TROUGH BETWEEN 52W AND 57W SW TO W WINDS 20 TO 25 KT. SEAS TO 8 FT. ELSEWHERE N OF 26N BETWEEN 50W AND 67W WINDS 20 KT OR LESS. SEAS TO 9 FT IN NE SWELL.

.48 HOUR FORECAST LOW PRES...POSSIBLE TROPICAL CYCLONE...NEAR 28N57W 1004 MB. OVER FORECAST WATERS WITHIN 240 NM N SEMICIRCLE WINDS 20 TO 30 KT. SEAS 9 TO 12 FT. WITHIN 180 NM SE QUADRANT OF LOW SW WINDS 20 TO 25 KT. SEAS TO 9 FT. ELSEWHERE N OF 27N BETWEEN 52W AND 65W WINDS 20 KT OR LESS. SEAS 8 TO 9 FT IN NE SWELL.

.REMAINDER OF AREA WINDS 20 KT OR LESS. SEAS LESS THAN 8 FT.

.FORECASTER AL. NATIONAL HURRICANE CENTER.

AXNT20 KNHC 011032
TWDAT

TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT THU OCT 01 2015

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1030 UTC.

...SPECIAL FEATURES...

MAJOR HURRICANE JOAQUIN WILL BATTER THE CENTRAL BAHAMAS WITH HURRICANE FORCE WINDS...STORM SURGE...AND HEAVY RAIN THROUGH TONIGHT. THE CENTER OF JOAQUIN AT 0900 UTC IS LOCATED NEAR 23.4N 73.7W OR ABOUT 19 NM N OF SAMANA CAYS BAHAMAS AND MOVES WSW AT 4 KT. THE CENTER OF JOAQUIN IS EXPECTED TO MOVE NEAR OR OVER PORTIONS OF THE CENTRAL BAHAMAS OVERNIGHT AND THU. MAXIMUM SUSTAINED WIND SPEED IS 105 KT WITH GUSTS TO 130 KT. NUMEROUS STRONG CONVECTION IS FROM 21N TO 25N BETWEEN 71W AND 75W. NUMEROUS MODERATE CONVECTION IS ELSEWHERE FROM 18N TO 26N BETWEEN 69W AND 77W. THE OUTER RAINBANDS OF JOAQUIN ARE ALSO AFFECTING EASTERN CUBA...THE WINDWARD PASSAGE AND HISPANIOLA WHERE SCATTERED MODERATE CONVECTION AND TSTMS ARE NOTED IN SATELLITE IMAGERY. JOAQUIN IS EXPECTED TO PRODUCE 10-15 INCHES OF RAIN OVER MUCH OF THE CENTRAL BAHAMAS AND 5-10 INCHES OVER THE SOUTHEASTERN BAHAMAS THROUGH FRI NIGHT. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A 1008 MB LOW PRES IS ANALYZED NEAR 25N56W ALONG WITH AN OLD FRONTAL TROUGH THAT EXTENDS FROM 27N65W TO THE LOW CENTER TO 24N48W. SCATTERED TO ISOLATED MODERATE CONVECTION AND TSTMS ARE FROM 20N TO 29N BETWEEN 50W AND 64W. CLOUDINESS AND TSTMS ASSOCIATED WITH THIS SYSTEM HAVE BECOME A LITTLE BETTER ORGANIZED. ENVIRONMENTAL CONDITIONS ARE EXPECTED TO BE CONDUCIVE FOR A TROPICAL DEPRESSION TO FORM BY THE WEEKEND WHILE THE LOW MOVES SLOWLY NW TO N. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A

TROPICAL CYCLONE DURING THE NEXT 48 HOURS.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC MOVING ACROSS THE CAPE VERDE ISLANDS WITH AXIS NEAR 24W...MOVING W AT 5 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB THAT ALONG WITH MIDDLE TO UPPER LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORT SCATTERED MODERATE CONVECTION FROM 06N TO 18N BETWEEN 19W AND 28W.

A TROPICAL WAVE IS IN THE CENTRAL ATLC WITH AXIS NEAR 42W CONNECTED TO A 1009 MB LOW OBSERVED IN ASCAT DATA NEAR 11N42W ...MOVING W AT 5-10 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB. HOWEVER...SOME DRY AIR INTRUSION IS ALSO DEPICTED IN THE N-NW WAVE ENVIRONMENT...WHERE METEOSAT ENHANCED IMAGERY SHOW DRY AIR AND DUST. STRONG DEEP LAYER WIND SHEAR INFLUENCES LACK OF CONVECTION.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF AFRICA NEAR 13N16W TO 12N23W...THEN RESUMES W OF A TROPICAL WAVE NEAR 11N25W TO 13N37W TO 10N52W. THE ITCZ WAS NOT DISCERNIBLE. FOR CONVECTION INFORMATION SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

A SHARP MIDDLE- TO UPPER-LEVEL TROUGH EXTENDS FROM ILLINOIS TO LOUISIANA SW TO A BASE OVER THE SW GULF OF MEXICO. SW FLOW AHEAD OF THE TROUGH IS ADVECTING ABUNDANT MID TO UPPER-LEVEL MOISTURE FROM SOUTH-CENTRAL MEXICO ALL THE WAY NE TO BEYOND FLORIDA. THE TROUGH ALOFT SUPPORTS A FRONTAL SYSTEM ANALYZED AS A COLD FRONT FROM THE FLORIDA PANHANDLE NEAR 30N84W TO 28N90W TO 28N96W. IT ALSO SUPPORTS A 1009 MB LOW PRES LOCATED NEAR 23N91W WITH A TROUGH EXTENDING FROM 26N88W TO THE LOW TO 22N94W. EXCEPT FOR THE SE GULF AND THE YUCATAN CHANNEL...THE CIRA LPW IMAGERY SHOW LOW LEVEL DRY AIR ACROSS THE BASIN THAT ALONG WITH STRONG DEEP LAYER ENVIRONMENTAL WIND SHEAR HINDER CONVECTION. LOOKING AHEAD...THE COLD FRONT IS FORECAST TO REACH THE SE GULF AND START TO DISSIPATE LATE THU. FRESH TO STRONG NORTHERLY WINDS AND BUILDING SEAS ARE EXPECTED IN THE WAKE OF THE FRONT.

CARIBBEAN SEA...

DUE TO THE PRESENCE OF HURRICANE JOAQUIN JUST E OF THE CENTRAL BAHAMAS...MAINLY GENTLE TRADE WINDS ARE NOTED ACROSS THE BASIN WITH THE EXCEPTION OF MODERATE TRADE WINDS OVER THE SOUTH-CENTRAL CARIBBEAN. IN ADDITION...ANOMALOUS SW TO W WINDS ARE SEEN PER SCATTEROMETER DATA OVER MUCH OF THE NW CARIBBEAN... BETWEEN EASTERN CUBA AND JAMAICA AND INTO THE WINDWARD PASSAGE. AS JOAQUIN APPROACHES THE CENTRAL BAHAMAS TODAY...THE SW FLOW MAY INCREASE...PARTICULARLY ACROSS THE EASTERN HALF OF CUBA AND REGIONAL WATERS...INCLUDING ALSO THE WINDWARD PASSAGE. THE GFS COMPUTER MODEL SUGGESTS INCREASING WINDS TO 20-30 KT. THE OUTER RAINBANDS OF JOAQUIN REACH EASTERN CUBA...THE WINDWARD PASSAGE AND GREAT PORTIONS OF HISPANIOLA WHERE SCATTERED MODERATE CONVECTION AND TSTMS ARE OBSERVED. IN THE SW BASIN...THE MONSOON TROUGH GENERATES SOME SHOWER AND TSTMS ACTIVITY OVER PARTS OF PANAMA AND COSTA RICA AND ADJACENT WATERS. ALOFT... UPPER-LEVEL NLY FLOW PREVAILS OVER MOST OF THE CENTRAL AND WESTERN CARIBBEAN. AN UPPER-LEVEL TROUGH EXTENDS FROM THE LEEWARD ISLANDS TO THE ABC ISLANDS AND NW VENEZUELA. SW WINDS E OF THE TROUGH AXIS ARE TRANSPORTING ABUNDANT MID-UPPER LEVEL MOISTURE FROM SOUTH AMERICA ACROSS THE WINDWARD ISLANDS INTO THE TROPICAL N ATLC WHERE SOME SHOWER ACTIVITY IS NOTED.

...HISPANIOLA...

THE OUTER RAINBANDS OF HURRICANE JOAQUIN EXTEND ACROSS THE ISLAND WHERE SCATTERED SHOWERS AND TSTMS ARE OBSERVED. SIMILAR ACTIVITY IS EXPECTED TO CONTINUE THROUGH THE NEXT 24 HOURS AS HURRICANE JOAQUIN MOVES SW TOWARD THE BAHAMAS TODAY.

ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLANTIC IS HURRICANE JOAQUIN...PLEASE SEE SPECIAL FEATURES SECTION ABOVE FOR DETAILS. SWELLS GENERATED BY JOAQUIN WILL AFFECT PORTIONS OF THE BAHAMAS DURING THE NEXT FEW DAYS...AND WILL BEGIN TO AFFECT PORTIONS OF THE SOUTHEASTERN COAST OF THE UNITED STATES BY THURSDAY. THESE SWELLS ARE LIKELY TO CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS. TO THE E OF JOAQUIN...A 1008 MB LOW PRES IS NEAR 25N56W ALONG WITH AN OLD FRONTAL TROUGH THAT EXTENDS FROM 27N65W TO THE LOW CENTER TO 24N48W. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A TROPICAL CYCLONE DURING THE NEXT 48 HOURS. PLEASE REFER TO THE SPECIAL FEATURES SECTION FOR MORE DETAILS. A WEAKENING STATIONARY FRONT

ENTERS THE FORECAST AREA NEAR 30N22W THEN CONTINUES SW TO NEAR 28N30W TO 27N40W TO 29N46W. SCATTERED MODERATE CONVECTION IS N OF 26N BETWEEN 16W AND 50W. A WEAK SURFACE RIDGE DOMINATES THE MADEIRA/CANARY ISLANDS.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

WTNT31 KNHC 011159
TCPAT1

BULLETIN

HURRICANE JOAQUIN INTERMEDIATE ADVISORY NUMBER 14A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
800 AM EDT THU OCT 01 2015

...EYE OF JOAQUIN NEAR SAMANA CAYS IN THE BAHAMAS...
...CENTRAL BAHAMAS TO EXPERIENCE HURRICANE FORCE WINDS...STORM
SURGE...AND HEAVY RAIN THROUGH TONIGHT...

SUMMARY OF 800 AM EDT...1200 UTC...INFORMATION

LOCATION...23.2N 73.7W
ABOUT 10 MI...15 KM N OF SAMANA CAYS BAHAMAS
ABOUT 75 MI...120 KM SE OF SAN SALVADOR BAHAMAS
MAXIMUM SUSTAINED WINDS...120 MPH...195 KM/H
PRESENT MOVEMENT...WSW OR 240 DEGREES AT 5 MPH...7 KM/H
MINIMUM CENTRAL PRESSURE...942 MB...27.82 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Central Bahamas
- * Northwestern Bahamas including the Abacos, Berry Islands, Eleuthera, Grand Bahama Island, and New Providence
- * The Acklins, Crooked Island, and Mayaguana in the southeastern Bahamas

A Hurricane Watch is in effect for...

- * Bimini
- * Andros Island

A Tropical Storm Warning is in effect for...

- * Remainder of the southeastern Bahamas excluding the Turks and Caicos Islands
- * Andros Island

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. Preparations to protect life and property should be complete in the central Bahamas.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

For storm information specific to your area, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 800 AM EDT (1200 UTC), the center of Hurricane Joaquin was located near latitude 23.2 North, longitude 73.7 West. Joaquin is moving toward the west-southwest near 5 mph (7 km/h), and this motion is expected to continue today. A turn toward the west-northwest is forecast tonight, followed by a turn toward the north and an increase in forward speed on Friday. On the forecast track, the center of Joaquin will move near or over portions of the central Bahamas today and tonight and pass near or over portions of the northwestern Bahamas on Friday.

Maximum sustained winds are near 120 mph (195 km/h) with higher gusts. Joaquin is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some strengthening is forecast in the next day or so, with some fluctuations in intensity possible on Friday.

Hurricane force winds extend outward up to 35 miles (55 km) from the center and tropical storm force winds extend outward up to 140 miles (220 km).

The minimum central pressure just extrapolated by an Air Force Reserve Hurricane Hunter aircraft is 942 mb (27.82 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to continue in portions of the central and southeastern Bahamas through Friday. Hurricane conditions are expected over portions of the northwestern Bahamas on Friday. Tropical storm conditions will affect portions of the

southeastern Bahamas through tonight.

STORM SURGE: A dangerous storm surge will raise water levels by as much as 5 to 8 feet above normal tide levels in the central Bahamas in areas of onshore flow. A storm surge of 2 to 4 feet above normal tide levels is expected in the northwest Bahamas within the hurricane warning area, and 1 to 2 feet is expected in the southeast Bahamas. Near the coast, the surge will be accompanied by large and dangerous waves.

RAINFALL: Joaquin is expected to produce total rain accumulations of 10 to 15 inches over the central Bahamas with isolated maximum amounts of 20 inches are possible. Rainfall amounts of 5 to 10 inches are expected over the southeastern Bahamas with 2 to 4 inches over the northwestern Bahamas. This rainfall could result in life-threatening flash floods.

SURF: Swells generated by Joaquin will affect portions of the Bahamas during the next few days, and will begin to affect portions of the southeastern coast of the United States today and spread northward through the weekend. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 1100 AM EDT.

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Forecaster Beven

AXNT20 KNHC 011206 AAA
TWDAT

TROPICAL WEATHER DISCUSSION...AMENDED
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT THU OCT 01 2015

AMENDED FOR 01/1200 UTC INFORMATION ON HURRICANE JOAQUIN

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFORMATION IS BASED ON SATELLITE IMAGERY...WEATHER OBSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1030 UTC.

...SPECIAL FEATURES...

MAJOR HURRICANE JOAQUIN WILL BATTER THE CENTRAL BAHAMAS WITH HURRICANE FORCE WINDS...STORM SURGE...AND HEAVY RAIN THROUGH TONIGHT. THE CENTER OF JOAQUIN AT 01/1200 UTC IS LOCATED NEAR 23.2N 73.7W OR ABOUT 10 NM N OF SAMANA CAYS BAHAMAS AND ABOUT 65 NM SE OF SAN SALVADOR BAHAMAS MOVING WSW AT 4 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 942 MB. THE CENTER OF JOAQUIN IS EXPECTED TO MOVE NEAR OR OVER PORTIONS OF THE CENTRAL BAHAMAS OVERNIGHT AND THU. MAXIMUM SUSTAINED WIND SPEED IS 105 KT WITH GUSTS TO 130 KT. NUMEROUS STRONG CONVECTION IS FROM 21N TO 25N BETWEEN 71W AND 75W. NUMEROUS MODERATE CONVECTION IS ELSEWHERE FROM 18N TO 26N BETWEEN 69W AND 77W. THE OUTER RAINBANDS OF JOAQUIN ARE ALSO AFFECTING EASTERN CUBA...THE WINDWARD PASSAGE AND HISPANIOLA WHERE SCATTERED MODERATE CONVECTION AND TSTMS ARE NOTED IN SATELLITE IMAGERY. JOAQUIN IS EXPECTED TO PRODUCE 10-15 INCHES OF RAIN OVER MUCH OF THE CENTRAL BAHAMAS AND 5-10 INCHES OVER THE SOUTHEASTERN BAHAMAS THROUGH FRI NIGHT. SEE LATEST NHC FORECAST/ADVISORY UNDER AWIPS/WMO HEADERS MIATCMAT1/WTNT21 KNHC FOR MORE DETAILS.

A 1008 MB LOW PRES IS ANALYZED NEAR 25N56W ALONG WITH AN OLD FRONTAL TROUGH THAT EXTENDS FROM 27N65W TO THE LOW CENTER TO 24N48W. SCATTERED TO ISOLATED MODERATE CONVECTION AND TSTMS ARE FROM 20N TO 29N BETWEEN 50W AND 64W. CLOUDINESS AND TSTMS ASSOCIATED WITH THIS SYSTEM HAVE BECOME A LITTLE BETTER ORGANIZED. ENVIRONMENTAL CONDITIONS ARE EXPECTED TO BE CONDUCIVE

FOR A TROPICAL DEPRESSION TO FORM BY THE WEEKEND WHILE THE LOW MOVES SLOWLY NW TO N. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A TROPICAL CYCLONE DURING THE NEXT 48 HOURS.

...TROPICAL WAVES...

A TROPICAL WAVE IS OVER THE E ATLC MOVING ACROSS THE CAPE VERDE ISLANDS WITH AXIS NEAR 24W...MOVING W AT 5 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB THAT ALONG WITH MIDDLE TO UPPER LEVEL DIFFLUENCE IN THE WAVE REGION SUPPORT SCATTERED MODERATE CONVECTION FROM 06N TO 18N BETWEEN 19W AND 28W.

A TROPICAL WAVE IS IN THE CENTRAL ATLC WITH AXIS NEAR 42W CONNECTED TO A 1009 MB LOW OBSERVED IN ASCAT DATA NEAR 11N42W... MOVING W AT 5-10 KT. CIRA LAYER PRECIPITABLE WATER IMAGERY SHOW THE WAVE IS EMBEDDED IN A MODERATE MOIST ENVIRONMENT FROM THE SURFACE TO 850 MB. HOWEVER...SOME DRY AIR INTRUSION IS ALSO DEPICTED IN THE N-NW WAVE ENVIRONMENT...WHERE METEOSAT ENHANCED IMAGERY SHOW DRY AIR AND DUST. STRONG DEEP LAYER WIND SHEAR INFLUENCES LACK OF CONVECTION.

...ITCZ/MONSOON TROUGH...

THE MONSOON TROUGH EXTENDS FROM THE COAST OF AFRICA NEAR 13N16W TO 12N23W...THEN RESUMES W OF A TROPICAL WAVE NEAR 11N25W TO 13N37W TO 10N52W. THE ITCZ WAS NOT DISCERNIBLE. FOR CONVECTION INFORMATION SEE THE TROPICAL WAVES SECTION.

...DISCUSSION...

GULF OF MEXICO...

A SHARP MIDDLE- TO UPPER-LEVEL TROUGH EXTENDS FROM ILLINOIS TO LOUISIANA SW TO A BASE OVER THE SW GULF OF MEXICO. SW FLOW AHEAD OF THE TROUGH IS ADVECTING ABUNDANT MID TO UPPER-LEVEL MOISTURE FROM SOUTH-CENTRAL MEXICO ALL THE WAY NE TO BEYOND FLORIDA. THE TROUGH ALOFT SUPPORTS A FRONTAL SYSTEM ANALYZED AS A COLD FRONT FROM THE FLORIDA PANHANDLE NEAR 30N84W TO 28N90W TO 28N96W. IT ALSO SUPPORTS A 1009 MB LOW PRES LOCATED NEAR 23N91W WITH A TROUGH EXTENDING FROM 26N88W TO THE LOW TO 22N94W. EXCEPT FOR THE SE GULF AND THE YUCATAN CHANNEL...THE CIRA LPW IMAGERY SHOW LOW LEVEL DRY AIR ACROSS THE BASIN THAT ALONG WITH STRONG DEEP LAYER ENVIRONMENTAL WIND SHEAR HINDER CONVECTION. LOOKING

AHEAD...THE COLD FRONT IS FORECAST TO REACH THE SE GULF AND START TO DISSIPATE LATE THU. FRESH TO STRONG NORTHERLY WINDS AND BUILDING SEAS ARE EXPECTED IN THE WAKE OF THE FRONT.

CARIBBEAN SEA...

DUE TO THE PRESENCE OF HURRICANE JOAQUIN JUST E OF THE CENTRAL BAHAMAS...MAINLY GENTLE TRADE WINDS ARE NOTED ACROSS THE BASIN WITH THE EXCEPTION OF MODERATE TRADE WINDS OVER THE SOUTH-CENTRAL CARIBBEAN. IN ADDITION...ANOMALOUS SW TO W WINDS ARE SEEN PER SCATTEROMETER DATA OVER MUCH OF THE NW CARIBBEAN... BETWEEN EASTERN CUBA AND JAMAICA AND INTO THE WINDWARD PASSAGE. AS JOAQUIN APPROACHES THE CENTRAL BAHAMAS TODAY...THE SW FLOW MAY INCREASE...PARTICULARLY ACROSS THE EASTERN HALF OF CUBA AND REGIONAL WATERS...INCLUDING ALSO THE WINDWARD PASSAGE. THE GFS COMPUTER MODEL SUGGESTS INCREASING WINDS TO 20-30 KT. THE OUTER RAINBANDS OF JOAQUIN REACH EASTERN CUBA...THE WINDWARD PASSAGE AND GREAT PORTIONS OF HISPANIOLA WHERE SCATTERED MODERATE CONVECTION AND TSTMS ARE OBSERVED. IN THE SW BASIN...THE MONSOON TROUGH GENERATES SOME SHOWER AND TSTMS ACTIVITY OVER PARTS OF PANAMA AND COSTA RICA AND ADJACENT WATERS. ALOFT... UPPER-LEVEL NLY FLOW PREVAILS OVER MOST OF THE CENTRAL AND WESTERN CARIBBEAN. AN UPPER-LEVEL TROUGH EXTENDS FROM THE LEEWARD ISLANDS TO THE ABC ISLANDS AND NW VENEZUELA. SW WINDS E OF THE TROUGH AXIS ARE TRANSPORTING ABUNDANT MID-UPPER LEVEL MOISTURE FROM SOUTH AMERICA ACROSS THE WINDWARD ISLANDS INTO THE TROPICAL N ATLC WHERE SOME SHOWER ACTIVITY IS NOTED.

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ATLANTIC OCEAN...

THE MAIN FEATURE OVER THE ATLANTIC IS HURRICANE JOAQUIN...PLEASE SEE SPECIAL FEATURES SECTION ABOVE FOR DETAILS. SWELLS GENERATED BY JOAQUIN WILL AFFECT PORTIONS OF THE BAHAMAS DURING THE NEXT FEW DAYS...AND WILL BEGIN TO AFFECT PORTIONS OF THE SOUTHEASTERN COAST OF THE UNITED STATES BY THURSDAY. THESE SWELLS ARE LIKELY TO CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS. TO THE E OF JOAQUIN...A 1008 MB LOW PRES IS NEAR 25N56W ALONG WITH AN OLD FRONTAL TROUGH THAT EXTENDS FROM 27N65W TO THE LOW CENTER TO 24N48W. THE LATEST NHC TROPICAL WEATHER OUTLOOK GIVES THIS

LOW PRES AREA A MEDIUM CHANCE OF DEVELOPING INTO A TROPICAL CYCLONE DURING THE NEXT 48 HOURS. PLEASE REFER TO THE SPECIAL FEATURES SECTION FOR MORE DETAILS. A WEAKENING STATIONARY FRONT ENTERS THE FORECAST AREA NEAR 30N22W THEN CONTINUES SW TO NEAR 28N30W TO 27N40W TO 29N46W. SCATTERED MODERATE CONVECTION IS N OF 26N BETWEEN 16W AND 50W. A WEAK SURFACE RIDGE DOMINATES THE MADEIRA/CANARY ISLANDS.

FOR ADDITIONAL INFORMATION PLEASE VISIT
[HTTP://WWW.HURRICANES.GOV/MARINE](http://www.hurricanes.gov/marine)

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NR

WTNT21 KNHC 011455
TCMAT1

HURRICANE JOAQUIN FORECAST/ADVISORY NUMBER 15
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1500 UTC THU OCT 01 2015

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A TROPICAL STORM
WARNING
FOR THE TURKS AND CAICOS ISLANDS.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

- * CENTRAL BAHAMAS
- * NORTHWESTERN BAHAMAS INCLUDING THE ABACOS...BERRY ISLANDS...
ELEUTHERA...GRAND BAHAMA ISLAND...AND NEW PROVIDENCE
- * THE ACKLINS...CROOKED ISLAND...AND MAYAGUANA IN THE SOUTHEASTERN
BAHAMAS

A HURRICANE WATCH IS IN EFFECT FOR...

- * BIMINI
- * ANDROS ISLAND

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * REMAINDER OF THE SOUTHEASTERN BAHAMAS NOW INCLUDING THE TURKS
AND
CAICOS ISLANDS
- * ANDROS ISLAND

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA. PREPARATIONS TO PROTECT LIFE
AND
PROPERTY SHOULD BE COMPLETE IN THE CENTRAL BAHAMAS.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE
WITHIN THE WATCH AREA.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE
EXPECTED SOMEWHERE WITHIN THE WARNING AREA.

HURRICANE CENTER LOCATED NEAR 23.0N 73.9W AT 01/1500Z
POSITION ACCURATE WITHIN 15 NM

PRESENT MOVEMENT TOWARD THE SOUTHWEST OR 220 DEGREES AT 5 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 942 MB

EYE DIAMETER 30 NM

MAX SUSTAINED WINDS 110 KT WITH GUSTS TO 135 KT.

64 KT..... 40NE 30SE 30SW 30NW.

50 KT..... 60NE 60SE 40SW 40NW.

34 KT.....100NE 120SE 100SW 80NW.

12 FT SEAS..260NE 180SE 150SW 210NW.

WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 23.0N 73.9W AT 01/1500Z

AT 01/1200Z CENTER WAS LOCATED NEAR 23.1N 73.7W

FORECAST VALID 02/0000Z 22.9N 74.2W

MAX WIND 115 KT...GUSTS 140 KT.

64 KT... 40NE 40SE 30SW 30NW.

50 KT... 60NE 70SE 40SW 60NW.

34 KT...120NE 130SE 100SW 90NW.

FORECAST VALID 02/1200Z 23.7N 74.6W

MAX WIND 120 KT...GUSTS 145 KT.

64 KT... 40NE 40SE 30SW 30NW.

50 KT... 70NE 80SE 50SW 50NW.

34 KT...140NE 150SE 100SW 100NW.

FORECAST VALID 03/0000Z 25.2N 74.4W

MAX WIND 120 KT...GUSTS 145 KT.

64 KT... 50NE 50SE 40SW 40NW.

50 KT... 70NE 80SE 60SW 60NW.

34 KT...150NE 150SE 100SW 120NW.

FORECAST VALID 03/1200Z 27.5N 73.7W

MAX WIND 110 KT...GUSTS 135 KT.

50 KT... 80NE 90SE 60SW 70NW.

34 KT...180NE 190SE 120SW 140NW.

FORECAST VALID 04/1200Z 32.0N 73.0W

MAX WIND 95 KT...GUSTS 115 KT.

50 KT... 90NE 90SE 60SW 70NW.

34 KT...230NE 190SE 100SW 150NW.

EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 150 NM

ON DAY 4 AND 200 NM ON DAY 5...AND FOR INTENSITY NEAR 15 KT EACH DAY

OUTLOOK VALID 05/1200Z 36.0N 73.5W
MAX WIND 75 KT...GUSTS 90 KT.

OUTLOOK VALID 06/1200Z 40.0N 72.5W
MAX WIND 55 KT...GUSTS 65 KT.

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 23.0N 73.9W

NEXT ADVISORY AT 01/2100Z

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FORECASTER BEVEN

FKNT21 KNHC 011456
TCANT1

HURRICANE JOAQUIN ICAO ADVISORY NUMBER 15
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1500 UTC THU OCT 01 2015

TC ADVISORY

DTG: 20151001/1500Z
TCAC: KNHC
TC: JOAQUIN
NR: 015
PSN: N2300 W07354
MOV: SW 05KT
C: 0942HPA
MAX WIND: 110KT
FCST PSN + 06 HR: 012100 N2256 W07406
FCST MAX WIND + 06 HR: 115KT
FCST PSN + 12 HR: 020300 N2306 W07417
FCST MAX WIND + 12 HR: 115KT
FCST PSN + 18 HR: 020900 N2330 W07430
FCST MAX WIND + 18 HR: 120KT
FCST PSN + 24 HR: 021500 N2404 W07433
FCST MAX WIND + 24 HR: 120KT

RMK THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT 0000...
0600...1200...AND 1800Z.

NXT MSG: 20151001/2100Z

WTNT41 KNHC 011504
TCDAT1

HURRICANE JOAQUIN DISCUSSION NUMBER 15
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112015
1100 AM EDT THU OCT 01 2015

An Air Force Reserve Hurricane Hunter aircraft reported 700-mb flight-level winds of 119 kt in the northwestern eyewall, with a 117 kt surface wind estimate from the Stepped Frequency Microwave Radiometer in the southwestern eyewall. The latest central pressure was 942 mb. Based on these data, the advisory intensity is increased to 110 kt. Satellite imagery indicates that an eye is trying to form in the central dense overcast, and that the cirrus outflow is good in all directions.

Joaquin is expected to intensify a little more in the next 12 to 24 hours as it remains over very warm waters and in an environment of decreasing vertical shear. After that time, there could be some fluctuations in intensity due to eyewall replacement cycles. There is some uncertainty in the intensity forecast in the 48-96 hour period. The statistical models suggest that Joaquin should weaken due to increasing shear. However, several of the global models forecast the hurricane to move into an area of strong upper-level divergence and show a falling central pressure. The new forecast will continue to show weakening during this time, but it would not be a surprise if it is stronger than currently forecast.

The initial motion is 220/5. Water vapor imagery shows a mid- to upper-level ridge north of the hurricane, with a developing deep-layer trough over the eastern and southeastern United States. The dynamical models forecast this trough to become a cut-off low as it moves southeastward and weakens the ridge. This pattern evolution should cause Joaquin to turn northwestward in 24 hours or so and then turn northward. After 36 hours, the guidance remains very divergent. The Canadian, GFDL, HWRF, and NAVGEM models forecast Joaquin to turn northwestward and make landfall over the Carolinas and mid-Atlantic States. The ECMWF continues to forecast a slower northeastward motion taking Joaquin near Bermuda and out to sea. The UKMET and GFS are in between these extremes showing a generally northward motion. Given the spread and the possibility that the 1200 UTC guidance could show additional changes, the forecast track after 36 hours is nudged only slightly to the east at this time. The new track lies to the east of the landfalling models, but to the west of the GFS, UKMET, ECMWF, and the various consensus models. Further adjustments to the track may be needed later today

depending on how the models do (or do not) change.

KEY MESSAGES:

1. Preparations to protect life and property in the central Bahamas should be complete. The slow motion of Joaquin over the next day or so will bring a prolonged period of hurricane force winds, storm surge, and very heavy rainfall to those islands.

2. Confidence in the details of the forecast after 72 hours is still low, since there have been some large changes in the model guidance overnight and a large spread in the model solutions remains, with potential impacts from the Carolinas through New England. It is also possible that Joaquin will remain far from the U.S. east coast. A hurricane watch for the U.S. coast would likely not occur until at least Friday morning.

3. Efforts to provide the forecast models with as much data as possible continue, with twice daily NOAA G-IV jet missions in the storm environment, and extra NWS balloon launches.

4. It's too early to talk about specific wind, rain, or surge impacts from Joaquin in the United States. Regardless of Joaquin's track, strong onshore winds will create minor to moderate coastal flooding along the coasts of the mid-Atlantic and northeastern states through the weekend.

5. Many portions of the eastern U.S. are currently experiencing heavy rains and gusty winds associated with a frontal system. These heavy rains are likely to continue for the next few days, even if the center of Joaquin stays offshore. The resulting inland flood potential could complicate preparations for Joaquin should it head toward the coast, and even more substantial inland flooding is possible if Joaquin later passes near or over these same areas.

FORECAST POSITIONS AND MAX WINDS

INIT	01/1500Z	23.0N	73.9W	110 KT	125 MPH
12H	02/0000Z	22.9N	74.2W	115 KT	130 MPH
24H	02/1200Z	23.7N	74.6W	120 KT	140 MPH
36H	03/0000Z	25.2N	74.4W	120 KT	140 MPH
48H	03/1200Z	27.5N	73.7W	110 KT	125 MPH
72H	04/1200Z	32.0N	73.0W	95 KT	110 MPH
96H	05/1200Z	36.0N	73.5W	75 KT	85 MPH

120H 06/1200Z 40.0N 72.5W 55 KT 65 MPH

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Forecaster Beven