



National Transportation Safety Board

**Office of Marine Safety
Washington, D.C. 20594-2000
December 13, 2016**

**ATTACHMENT 19 to the METEOROLOGY GROUP FACTUAL REPORT
DCA16MM001**

Images of Inmarsat-C SafetyNET printouts from October 16, 2016, as provided by TOTE, as well as the same text products as released by the National Weather Service.

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

ABC Message --- MET Navarea Warning or MET Forecast ---
Message Sequence No. : 12704
LES : Vizada (NDR)
Priority : Urgent
Size : 2191 characters
Receive Date & Time : 16-10-16 20:46 (UTC)

Eik LES 16-OCT-2016 20:44:15 069791

NTNT25 KNHC 162043
TCMAT5 ADW 2043

HURRICANE NICOLE FORECAST/ADVISORY NUMBER 51
NWS NATIONAL HURRICANE CENTER MIAMI FL AL152016
2100 UTC SUN OCT 16 2016

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

HURRICANE CENTER LOCATED NEAR 39.7N 45.6W AT 16/2100Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE NORTHEAST OR 45 DEGREES AT 8 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 960 MB
EYE DIAMETER 70 NM
MAX SUSTAINED WINDS 70 KT WITH GUSTS TO 85 KT.
64 KT..... 60NE 80SE 80SW 70NW.
50 KT.....130NE 150SE 180SW 130NW.
34 KT.....380NE 330SE 330SW 380NW.
12 FT SEAS..480NE 660SE 960SW 720NW.

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 39.7N 45.6W AT 16/2100Z
AT 16/1800Z CENTER WAS LOCATED NEAR 39.4N 45.9W

FORECAST VALID 17/0600Z 40.5N 44.5W
MAX WIND 65 KT...GUSTS 80 KT.
64 KT... 60NE 80SE 80SW 70NW.
50 KT...130NE 150SE 180SW 130NW.
34 KT...400NE 360SE 360SW 420NW.

FORECAST VALID 17/1800Z 42.6N 42.5W
MAX WIND 65 KT...GUSTS 80 KT.
64 KT... 50NE 70SE 70SW 60NW.
50 KT...130NE 150SE 160SW 110NW.
34 KT...420NE 400SE 380SW 480NW.

FORECAST VALID 18/0600Z 46.3N 39.6W...POST-TROP/EXTRATROP
MAX WIND 65 KT...GUSTS 80 KT.
64 KT... 50NE 70SE 70SW 60NW.
50 KT...130NE 140SE 120SW 90NW.
34 KT...450NE 450SE 400SW 550NW.

FORECAST VALID 18/1800Z 51.3N 37.3W...POST-TROP/EXTRATROP
MAX WIND 65 KT...GUSTS 80 KT.
50 KT...130NE 130SE 80SW 60NW.
34 KT...480NE 510SE 430SW 650NW.

FORECAST VALID 19/1800Z 59.6N 32.7W...POST-TROP/EXTRATROP
MAX WIND 55 KT...GUSTS 65 KT.
50 KT...120NE 240SE 0SW 0NW.
34 KT...360NE 400SE 420SW 600NW.

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 20/1800Z...ABSORBED BY LARGER EXTRATROPICAL LOW

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 39.7N 45.6W

NEXT ADVISORY AT 17/0300Z

FORECASTER STEWART

UID 45F9683C-93E1-11E6-9B02-000000000000 TX 1

EGC Message --- MET Navarea Warning or MET Forecast ---

Message Sequence No. : 12706
LES : Vizada (NDR)
Priority : Urgent
Size : 5433 characters
Receive Date & Time : 16-10-16 22:20 (UTC)

Eik LES 16-OCT-2016 22:15:27 149611

FZNT01 KWBC 162203
HSFAT1 ADW 2230

HIGH SEAS FORECAST FOR METAREA IV
NWS OCEAN PREDICTION CENTER WASHINGTON DC
2230 UTC SUN OCT 16 2016

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.
ONLY YOU KNOW THE WEATHER AT YOUR POSITION. REPORT IT TO THE
NATIONAL WEATHER SERVICE. EMAIL US AT
WOSOPS@NOAA.GOV(LOWERCASE).

PAN PAN

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

SYNOPSIS VALID 1800 UTC OCT 16
24 HOUR FORECAST VALID 1800 UTC OCT 17
3 HOUR FORECAST VALID 1800 UTC OCT 18

...HURRICANE WARNING...

HURRICANE NICOLE NEAR 39.7N 45.6W 960 MB AT 2100 UTC OCT 16
MOVING NE DR 045 DEG AT 8 KT. MAXIMUM SUSTAINED WINDS 70 KT
GUSTS 85 KT. TROPICAL STORM FORCE WINDS WITHIN 380 NM N
SEMICIRCLE AND 330 NM S SEMICIRCLE. SEAS 12 FT OR GREATER
WITHIN 480 NM NE QUADRANT...660 NM SE QUADRANT...960 NM SW
QUADRANT...AND 720 NM NW QUADRANT WITH SEAS TO 33 FT. ELSEWHERE
FROM 32N TO 49N BETWEEN 35W AND 60W WINDS 20 TO 33 KT. SEAS 8 TO
12 FT.

24 HOUR FORECAST HURRICANE NICOLE NEAR 42.6N 42.5W. MAXIMUM
SUSTAINED WINDS 65 KT GUSTS 80 KT. TROPICAL STORM FORCE WINDS
WITHIN 420 NM NE QUADRANT...400 NM SE QUADRANT...380 NM SW
QUADRANT...AND 480 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN
510 NM NE...660 NM SE...900 NM SW...AND 360 NM NW QUADRANTS WITH
SEAS TO 32 FT. ELSEWHERE FROM 33N TO 52N BETWEEN 35W AND 54W
WINDS 20 TO 33 KT. SEAS 8 TO 12 FT.

48 HOUR FORECAST POST-TROPICAL CYCLONE NICOLE NEAR 51.3N
37.3W 962 MB. WITHIN 130 NM E SEMICIRCLE AND 80 NM SW AND 60 NM
NW QUADRANTS WINDS 50 TO 65 KT. SEAS 20 TO 32 FT. ALSO WITHIN
480 NM NW...510 NM SE...430 NM SW...AND 650 NM NW QUADRANTS
WINDS 34 TO 50 KT. SEAS 14 TO 26 FT. ELSEWHERE FROM 42N TO 62N
BETWEEN 35W AND 56W WINDS 20 TO 33 KT. SEAS 8 TO 16 FT.

72 HOUR FORECAST POST-TROPICAL CYCLONE NICOLE NEAR 59.6N 32.7W.
MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

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

96 HOUR FORECAST...ABSORBED BY LARGER EXTRATROPICAL LOW.

...STORM WARNING...

LOW 61N39W 993 MB MOVING E 15 KT. WITHIN 180 NM S AND SW
QUADRANTS WINDS 35 TO 50 KT. SEAS 12 TO 21 FT. ALSO WITHIN 270
NM S AND SW QUADRANTS WINDS 25 TO 35 KT. SEAS 10 TO 16 FT.
ELSEWHERE WITHIN 300 NM NE QUADRANT WINDS 20 TO 30 KT. SEAS TO
1 FT.

24 HOUR FORECAST LOW AND CONDITIONS E OF AREA.

...GALE WARNING...

COMPLEX LOW WITH MAIN CENTER INLAND 55N67W 995 MB MOVING E 15
KT. WITHIN 570 NM SE QUADRANT WINDS 25 TO 35 KT. SEAS TO 9 FT.

24 HOUR FORECAST COMPLEX LOW WITH FIRST CENTER 55N53W 1001 MB
AND SECOND CENTER 50N57W 999 MB. WITHIN 300 NM NW SEMICIRCLE OF
FIRST CENTER WINDS 25 TO 35 KT. SEAS 8 TO 12 FT. ELSEWHERE
WITHIN 720 NM S AND SW QUADRANTS OF SECOND CENTER WINDS 20 TO 30
KT. SEAS TO 10 FT.

48 HOUR FORECAST LOW DISSIPATED. EXCEPT WHERE NOTED ABOVE WITH
POST-TROPICAL NICOLE...WITHIN 120 NM E AND SE OF A FRONT TO
EXTEND FROM 43N41W TO 40N46W TO 37N55W WINDS 20 TO 30 KT. SEAS 8
TO 12 FT.

...SYNOPSIS AND FORECAST.

DENSE FOG. 24 HOUR FORECAST VSBY OCCASIONALLY BELOW 1 NM FROM
44N TO 51N BETWEEN 35W AND 48W.

48 HOUR FORECAST DENSE FOG FROM 50N TO 60N BETWEEN 35W AND 42W.

HIGH 52N44W 1023 MB MOVING E 40 KT.

24 HOUR FORECAST HIGH DISSIPATED E OF AREA.

HIGH 37N72W 1024 MB MOVING S 10 KT NEXT 24 HOURS THEN WILL TURN
E.

24 HOUR FORECAST HIGH 34N72W 1020 MB.

48 HOUR FORECAST HIGH 34N65W 1020 MB.

FORECASTER ACHORN. OCEAN PREDICTION CENTER.

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

SYNOPSIS VALID 1800 UTC SUN OCT 16.
24 HOUR FORECAST VALID 1800 UTC MON OCT 17.
48 HOUR FORECAST VALID 1800 UTC TUE OCT 18.

.WARNINGS.

.NONE.

.SYNOPSIS AND FORECAST.

.ATLC COLD FRONT FROM 31N41W TO 21N55W TO 21N66W THEN SHEAR LINE TO 21N77W. N OF LINE FROM 29N35W TO 21N48W TO 24N73W WINDS 20 KT OR LESS. SEAS 8 TO 18 FT PRIMARILY IN N SWELL... HIGHEST SEAS NEAR 31N49W.

.12 HOUR FORECAST COLD FRONT FROM 31N39W TO 22N48W TO 21N55W THEN SHEAR LINE TO 21N67W TO 21N77W. N OF 28N WITHIN 90 NM E OF FRONT SW WINDS 20 TO 25 KT. SEAS 15 FT. ELSEWHERE N OF LINE FROM 25N35W TO 20N55W TO 27N72W WINDS 20 KT OR LESS. SEAS 8 TO 16 FT PRIMARILY IN N SWELL...HIGHEST SEAS NEAR 31N48W.

.24 HOUR FORECAST STATIONARY FRONT FROM 31N40W TO 21N48W THEN SHEAR LINE TO 21N62W TO DEVELOPING LOW PRES 23N74W 1010 MB. N OF LINE FROM 19N35W TO 16N55W TO 27N75W WINDS 20 KT OR LESS. SEAS 8 TO 15 FT PRIMARILY IN N SWELL...HIGHEST SEAS NEAR 31N50W.

.48 HOUR FORECAST FRONTAL TROUGH FROM 31N37W TO 21N47W TO 25N65W TO LOW PRES 24N67W 1009 MB WITH TROUGH SW TO 20N74W. WITHIN 210 NM NW SEMICIRCLE OF LOW NE TO E WINDS 20 TO 25 KT. SEAS 9 TO 12 FT. ELSEWHERE N OF LINE FROM 09N35W TO 07N56W TO 27N80W WINDS 20 KT OR LESS. SEAS TO 11 FT PRIMARILY IN N SWELL.

.CARIBBEAN 36 HOUR FORECAST ATLC PASSAGES N OF 15N E OF 67W WINDS 20 KT OR LESS. SEAS TO 8 FT PRIMARILY IN N SWELL.

.48 HOUR FORECAST NE OF LINE FROM 18N68W TO 12N61W WINDS 20 KT OR LESS. SEAS TO 9 FT PRIMARILY IN N SWELL.

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

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.FORECASTER STRIPLING. NATIONAL HURRICANE CENTER.

UID 533AE876-93EC-11E6-AC49-000000000000 TX 1

WTNT25 KNHC 162043
TCMAT5

HURRICANE NICOLE FORECAST/ADVISORY NUMBER 51
NWS NATIONAL HURRICANE CENTER MIAMI FL AL152016
2100 UTC SUN OCT 16 2016

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

HURRICANE CENTER LOCATED NEAR 39.7N 45.6W AT 16/2100Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE NORTHEAST OR 45 DEGREES AT 8 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 960 MB
EYE DIAMETER 70 NM

MAX SUSTAINED WINDS 70 KT WITH GUSTS TO 85 KT.

64 KT..... 60NE 80SE 80SW 70NW.

50 KT.....130NE 150SE 180SW 130NW.

34 KT.....380NE 330SE 330SW 380NW.

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FZNT01 KWBC 162203

HSFAT1

HIGH SEAS FORECAST FOR METAREA IV

NWS OCEAN PREDICTION CENTER WASHINGTON DC

2230 UTC SUN OCT 16 2016

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.

ONLY YOU KNOW THE WEATHER AT YOUR POSITION. REPORT IT TO THE NATIONAL WEATHER SERVICE. EMAIL US AT VOSOPS@NOAA.GOV(LOWERCASE).

PAN PAN

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

SYNOPSIS VALID 1800 UTC OCT 16

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.72 HOUR FORECAST POST-TROPICAL CYCLONE NICOLE NEAR 59.6N 32.7W. MAXIMUM SUSTAINED WINDS 55 KT GUSTS 65 KT.

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NATIONAL HURRICANE CENTER MIAMI FL

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.12 HOUR FORECAST COLD FRONT FROM 31N39W TO 22N48W TO 21N55W THEN SHEAR LINE TO 21N67W TO 21N77W. N OF 28N WITHIN 90 NM E OF FRONT SW WINS 20 TO 25 KT. SEAS 15 FT. ELSEWHERE N OF LINE FROM 25N35W TO 20N55W TO 27N72W WINDS 20 KT OR LESS. SEAS 8 TO 16 FT

PRIMARILY IN N SWELL...HIGHEST SEAS NEAR 31N48W.

.24 HOUR FORECAST STATIONARY FRONT FROM 31N40W TO 21N48W THEN SHEAR LINE TO 21N62W TO DEVELOPING LOW PRES 23N74W 1010 MB. N OF LINE FROM 19N35W TO 16N55W TO 27N75W WINDS 20 KT OR LESS. SEAS 8 TO 15 FT PRIMARILY IN N SWELL...HIGHEST SEAS NEAR 31N50W.

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