

ODS CDR EDITOR LISTING A3.06

DATA SELECTED

TD

TIME: 11/06/05 13:34:00 - 11/06/05 14:01:00. CONTROLLER:  
ALTITUDE: BEACON: 4605 ACID: SUBSYSTEM:  
ETG: N INTERFACILITY: NON\_CONFLICT: N RANGE: AZIMUTH: UNASSOCIATED: Y  
TRACK: SMART BUFFER LINES PER PAGE: 56 SCAN SUMMARY OFF HEADERS ON SORT BY TIME  
SHOW N/A CA DATA BINARY TIME FILTER SEARCH

PC ARTSIIIA CDR Editor

\*\*\*\*\* Opening ODS file F:\DSC\CDR DATA\N4171Z\N4171Z.cdr of record size 768 words. \*\*\*\*\*

TRACKING DATA (TD), RAPTOR Program 11/ 6/05 PAGE 2

| TIME          | ACID | TRK | ABC  | RBC  | FRM  | RALT | PACP | PDEG | PRAN | X     | Y      | DDEG | DRAN | XV    | YV  | HDG | SPD | MI  | DI | ADS |
|---------------|------|-----|------|------|------|------|------|------|------|-------|--------|------|------|-------|-----|-----|-----|-----|----|-----|
| C ETG RO S SP | AT   | SYS | SCAN |      |      |      |      |      |      |       |        |      |      |       |     |     |     |     |    |     |
| 13:34:01.421  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3167 | 278  | 56.14 | -55.75 | 8.06 | 278  | 56.33 | 159 | 22  | 82  | 160 |    |     |
| 13:34:06.014  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3168 | 278  | 55.96 | -55.50 | 8.19 | 278  | 56.10 | 157 | 29  | 79  | 159 |    |     |
| 13:34:10.698  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3169 | 279  | 55.77 | -55.31 | 8.25 | 278  | 55.92 | 156 | 36  | 77  | 160 |    |     |
| 13:34:15.288  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3170 | 279  | 55.59 | -55.12 | 8.31 | 278  | 55.75 | 155 | 40  | 75  | 160 |    |     |
| 13:34:19.877  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3171 | 279  | 55.41 | -54.94 | 8.38 | 278  | 55.57 | 154 | 43  | 74  | 159 |    |     |
| 13:34:24.470  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3172 | 279  | 55.23 | -54.75 | 8.44 | 278  | 55.39 | 154 | 44  | 74  | 160 |    |     |
| 13:34:29.159  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3173 | 279  | 55.04 | -54.56 | 8.50 | 278  | 55.22 | 154 | 44  | 74  | 160 |    |     |
| 13:34:33.748  | E145 | 0   | 340  | 4605 | 4605 | 38   | 5000 | 3174 | 279  | 54.86 | -54.31 | 8.56 | 279  | 54.98 | 154 | 44  | 74  | 160 |    |     |

| Time         | Lat      | Long | Alt  | Speed | Heading | Roll | Pitch | Yaw | Roll Rate | Pitch Rate | Yaw Rate | Roll Acc | Pitch Acc | Yaw Acc |    |    |     |     |
|--------------|----------|------|------|-------|---------|------|-------|-----|-----------|------------|----------|----------|-----------|---------|----|----|-----|-----|
| 13:34:38.333 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3175  | 279 | 54.67     | -54.12     | 8.62     | 279      | 54.80     | 154     | 44 | 74 | 160 | ARR |
| OC           | DWH PA34 | 0    | 10   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:34:43.022 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3176  | 279 | 54.48     | -53.94     | 8.62     | 279      | 54.62     | 153     | 44 | 74 | 159 | ARR |
| OC           | DWH PA34 | 0    | 11   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:34:47.611 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3177  | 279 | 54.30     | -53.75     | 8.69     | 279      | 54.45     | 153     | 43 | 74 | 158 | ARR |
| OC           | DWH PA34 | 0    | 12   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:34:52.201 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3179  | 279 | 54.13     | -53.56     | 8.81     | 279      | 54.28     | 151     | 53 | 70 | 160 | ARR |
| OC           | DWH PA34 | 0    | 13   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:34:56.795 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3180  | 279 | 53.95     | -53.38     | 8.88     | 279      | 54.11     | 151     | 55 | 70 | 160 | ARR |
| OC           | DWH PA34 | 0    | 14   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:01.386 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3181  | 280 | 53.77     | -53.19     | 8.94     | 279      | 53.93     | 152     | 54 | 70 | 161 | ARR |
| OC           | DWH PA34 | 0    | 15   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:06.069 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3182  | 280 | 53.58     | -52.94     | 9.00     | 279      | 53.70     | 153     | 51 | 71 | 161 | ARR |
| OC           | DWH PA34 | 0    | 16   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:10.664 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3183  | 280 | 53.39     | -52.75     | 9.06     | 279      | 53.52     | 154     | 47 | 73 | 161 | ARR |
| OC           | DWH PA34 | 0    | 17   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:15.349 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3184  | 280 | 53.19     | -52.56     | 9.00     | 279      | 53.32     | 156     | 33 | 78 | 159 | ARR |
| OC           | DWH PA34 | 0    | 18   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:19.937 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3185  | 280 | 53.00     | -52.38     | 9.12     | 279      | 53.16     | 156     | 37 | 76 | 160 | ARR |
| OC           | DWH PA34 | 0    | 19   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:24.530 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3186  | 280 | 52.81     | -52.12     | 9.19     | 280      | 52.93     | 156     | 39 | 76 | 160 | ARR |
| OC           | DWH PA34 | 0    | 20   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:29.121 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3187  | 280 | 52.62     | -52.00     | 9.25     | 280      | 52.81     | 155     | 40 | 75 | 160 | ARR |
| OC           | DWH PA34 | 0    | 21   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:33.710 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3188  | 280 | 52.43     | -51.75     | 9.31     | 280      | 52.58     | 156     | 39 | 76 | 160 | ARR |
| OC           | DWH PA34 | 0    | 22   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:38.397 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3190  | 280 | 52.26     | -51.56     | 9.44     | 280      | 52.42     | 154     | 50 | 72 | 161 | ARR |
| OC           | DWH PA34 | 0    | 23   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:42.983 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3191  | 280 | 52.08     | -51.38     | 9.44     | 280      | 52.23     | 154     | 52 | 71 | 162 | ARR |
| OC           | DWH PA34 | 0    | 24   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:47.577 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3192  | 281 | 51.88     | -51.19     | 9.44     | 280      | 52.05     | 156     | 39 | 76 | 160 | ARR |
| OC           | DWH PA34 | 0    | 25   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:52.261 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3193  | 281 | 51.70     | -50.94     | 9.56     | 280      | 51.82     | 156     | 43 | 74 | 161 | ARR |
| OC           | DWH PA34 | 0    | 26   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:35:56.852 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3194  | 281 | 51.50     | -50.75     | 9.50     | 280      | 51.63     | 157     | 33 | 78 | 160 | ARR |
| OC           | DWH PA34 | 0    | 27   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:36:01.446 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3196  | 281 | 51.33     | -50.56     | 9.69     | 280      | 51.48     | 155     | 49 | 72 | 162 | ARR |
| OC           | DWH PA34 | 0    | 28   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:36:06.031 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3197  | 281 | 51.14     | -50.38     | 9.75     | 281      | 51.31     | 155     | 53 | 71 | 163 | ARR |
| OC           | DWH PA34 | 0    | 29   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:36:10.717 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3199  | 281 | 50.96     | -50.19     | 9.81     | 281      | 51.14     | 155     | 53 | 71 | 163 | ARR |
| OC           | DWH PA34 | 0    | 30   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:36:15.307 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3200  | 281 | 50.78     | -49.94     | 9.81     | 281      | 50.89     | 156     | 49 | 72 | 163 | ARR |
| OC           | DWH PA34 | 0    | 31   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:36:20.098 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3201  | 281 | 50.60     | -49.75     | 9.94     | 281      | 50.73     | 155     | 53 | 71 | 163 | ARR |
| OC           | DWH PA34 | 0    | 32   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |
| 13:36:24.686 | N4171Z   | 340  | 4605 | 4605  | 38      | 5000 | 3202  | 281 | 50.40     | -49.56     | 9.94     | 281      | 50.55     | 158     | 42 | 75 | 163 | ARR |
| OC           | DWH PA34 | 0    | 33   |       |         |      |       |     |           |            |          |          |           |         |    |    |     |     |

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|                                             |          |     |      |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
|---------------------------------------------|----------|-----|------|------|-----|------|------|------|-------|--------|-------|------|-------|-----|----|-----|-----|-----|----|-----|
| 13:36:29.272                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3203 | 282  | 50.20 | -49.38 | 9.94  | 281  | 50.36 | 158 | 34 | 77  | 161 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 34   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:36:33.963                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3204 | 282  | 50.02 | -49.19 | 10.06 | 281  | 50.20 | 157 | 40 | 75  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 35   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:36:38.550                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3206 | 282  | 49.85 | -48.94 | 10.19 | 281  | 49.98 | 155 | 52 | 71  | 163 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 36   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:36:43.139                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3207 | 282  | 49.66 | -48.75 | 10.12 | 281  | 49.79 | 157 | 43 | 74  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 37   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:36:47.728                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3208 | 282  | 49.48 | -48.56 | 10.25 | 282  | 49.63 | 156 | 46 | 73  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 38   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:36:52.420                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3210 | 282  | 49.29 | -48.38 | 10.31 | 282  | 49.46 | 157 | 45 | 74  | 163 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 39   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:36:57.008                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3211 | 282  | 49.10 | -48.19 | 10.31 | 282  | 49.28 | 157 | 41 | 75  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 40   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:01.596                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3212 | 282  | 48.93 | -47.94 | 10.44 | 282  | 49.06 | 156 | 47 | 73  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 41   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:06.288                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3214 | 282  | 48.75 | -47.75 | 10.50 | 282  | 48.89 | 156 | 46 | 73  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 42   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:10.874                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3215 | 283  | 48.57 | -47.56 | 10.56 | 282  | 48.72 | 155 | 52 | 71  | 163 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 43   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:15.466                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3217 | 283  | 48.40 | -47.38 | 10.69 | 282  | 48.56 | 154 | 60 | 68  | 165 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 44   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:20.053                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3218 | 283  | 48.20 | -47.19 | 10.62 | 282  | 48.37 | 157 | 48 | 73  | 164 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 45   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:24.643                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3220 | 283  | 48.02 | -46.94 | 10.75 | 282  | 48.15 | 157 | 49 | 72  | 164 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 46   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:29.332                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3221 | 283  | 47.85 | -46.75 | 10.88 | 283  | 48.00 | 156 | 54 | 71  | 165 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 47   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:33.924                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3223 | 283  | 47.67 | -46.56 | 10.88 | 283  | 47.81 | 156 | 51 | 71  | 164 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 48   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:38.514                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3225 | 283  | 47.49 | -46.38 | 11.00 | 283  | 47.66 | 156 | 54 | 71  | 165 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 49   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:43.200                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3226 | 284  | 47.31 | -46.19 | 11.00 | 283  | 47.48 | 156 | 51 | 71  | 164 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 50   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:47.788                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3228 | 284  | 47.13 | -45.94 | 11.12 | 283  | 47.26 | 156 | 53 | 71  | 164 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 51   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:52.378                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3228 | 284  | 46.94 | -45.75 | 11.06 | 283  | 47.07 | 157 | 40 | 75  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 52   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:37:56.971                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3230 | 284  | 46.77 | -45.56 | 11.25 | 283  | 46.93 | 156 | 49 | 72  | 163 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 53   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| TRACKING DATA (TD), RAPTOR Program 11/ 6/05 |          |     |      |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| TIME                                        | ACID     | TRK | ABC  | RBC  | FRM | RALT | PACP | PDEG | PRAN  | X      | Y     | DDEG | DRAN  | XV  | YV | HDG | SPD | MI  | DI | ADS |
| 13:38:01.659                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3232 | 284  | 46.59 | -45.38 | 11.25 | 284  | 46.75 | 156 | 49 | 72  | 163 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 54   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:38:06.245                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3233 | 284  | 46.40 | -45.19 | 11.31 | 284  | 46.58 | 157 | 43 | 74  | 162 | ARR |    |     |
| OC                                          | DWH PA34 | 0   | 55   |      |     |      |      |      |       |        |       |      |       |     |    |     |     |     |    |     |
| 13:38:10.836                                | N4171Z   | 340 | 4605 | 4605 | 38  | 5000 | 3235 | 284  | 46.24 | -44.94 | 11.44 | 284  | 46.37 | 155 | 55 | 70  | 164 | ARR |    |     |

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|      |              |          |   |    |      |      |    |      |      |     |       |        |       |     |       |     |    |    |     |     |
|------|--------------|----------|---|----|------|------|----|------|------|-----|-------|--------|-------|-----|-------|-----|----|----|-----|-----|
| OC   | 13:38:15.429 | DWH PA34 | 0 | 56 | 4605 | 4605 | 38 | 5000 | 3237 | 285 | 46.06 | -44.75 | 11.50 | 284 | 46.20 | 156 | 54 | 71 | 165 | ARR |
| OC   | 13:38:20.117 | DWH PA34 | 0 | 57 | 4605 | 4605 | 38 | 5000 | 3239 | 285 | 45.89 | -44.56 | 11.56 | 284 | 46.04 | 156 | 57 | 70 | 166 | ARR |
| OC   | 13:38:24.705 | DWH PA34 | 0 | 58 | 4605 | 4605 | 38 | 5000 | 3240 | 285 | 45.70 | -44.38 | 11.62 | 284 | 45.87 | 156 | 52 | 71 | 164 | ARR |
| OC   | 13:38:29.293 | DWH PA34 | 0 | 59 | 4605 | 4605 | 38 | 5000 | 3241 | 285 | 45.51 | -44.19 | 11.62 | 284 | 45.69 | 158 | 43 | 74 | 163 | ARR |
| OC   | 13:38:33.888 | DWH PA34 | 0 | 60 | 4605 | 4605 | 38 | 5000 | 3243 | 285 | 45.35 | -43.94 | 11.75 | 285 | 45.48 | 156 | 53 | 71 | 164 | ARR |
| OC   | 13:38:38.575 | DWH PA34 | 0 | 61 | 4605 | 4605 | 38 | 5000 | 3245 | 285 | 45.17 | -43.75 | 11.81 | 285 | 45.32 | 156 | 52 | 71 | 164 | ARR |
| OC   | 13:38:43.165 | DWH PA34 | 0 | 62 | 4605 | 4605 | 38 | 5000 | 3246 | 285 | 44.99 | -43.56 | 11.81 | 285 | 45.13 | 156 | 45 | 74 | 162 | ARR |
| OC   | 13:38:47.845 | DWH PA34 | 0 | 63 | 4605 | 4605 | 38 | 5000 | 3248 | 285 | 44.82 | -43.38 | 11.88 | 285 | 44.97 | 156 | 45 | 74 | 162 | ARR |
| OC   | 13:38:52.438 | DWH PA34 | 0 | 64 | 4605 | 4605 | 38 | 5000 | 3250 | 286 | 44.64 | -43.12 | 12.00 | 285 | 44.76 | 156 | 49 | 72 | 163 | ARR |
| OC   | 13:38:57.030 | DWH PA34 | 0 | 65 | 4605 | 4605 | 38 | 5000 | 3251 | 286 | 44.46 | -42.94 | 12.00 | 285 | 44.58 | 156 | 44 | 74 | 162 | ARR |
| OC   | 13:39:01.619 | DWH PA34 | 0 | 66 | 4605 | 4605 | 38 | 5000 | 3253 | 286 | 44.30 | -42.75 | 12.19 | 286 | 44.45 | 156 | 54 | 71 | 165 | ARR |
| OC   | 13:39:06.209 | DWH PA34 | 0 | 67 | 4605 | 4605 | 38 | 5000 | 3254 | 286 | 44.11 | -42.56 | 12.12 | 286 | 44.25 | 157 | 44 | 74 | 163 | ARR |
| OC   | 13:39:10.896 | DWH PA34 | 0 | 68 | 4605 | 4605 | 38 | 5000 | 3256 | 286 | 43.92 | -42.38 | 12.19 | 286 | 44.09 | 158 | 42 | 75 | 163 | ARR |
| OC   | 13:39:15.486 | DWH PA34 | 0 | 69 | 4605 | 4605 | 38 | 4900 | 3258 | 286 | 43.76 | -42.12 | 12.31 | 286 | 43.89 | 156 | 53 | 71 | 164 | ARR |
| 1M   | 13:39:20.072 | DWH PA34 | 0 | 70 | 4605 | 4605 | 38 | 4800 | 3260 | 287 | 43.58 | -41.94 | 12.38 | 286 | 43.72 | 158 | 50 | 72 | 165 | ARR |
| 1M   | 13:39:24.663 | DWH PA34 | 0 | 71 | 4605 | 4605 | 38 | 4800 | 3262 | 287 | 43.39 | -41.69 | 12.44 | 286 | 43.50 | 158 | 50 | 72 | 165 | ARR |
| 1M   | 13:39:29.356 | DWH PA34 | 0 | 72 | 4605 | 4605 | 38 | 4700 | 3264 | 287 | 43.21 | -41.50 | 12.50 | 286 | 43.34 | 159 | 51 | 72 | 166 | ARR |
| 1M   | 13:39:33.943 | DWH PA34 | 0 | 73 | 4605 | 4605 | 38 | 4600 | 3266 | 287 | 43.02 | -41.25 | 12.56 | 287 | 43.12 | 161 | 50 | 72 | 168 | ARR |
| 1M   | 13:39:34.625 | DWH PA34 | 0 | 74 | 4605 | 4605 | 15 | 4600 | 3486 | 306 | 59.13 | -47.88 | 34.94 | 306 | 59.27 | 220 | 99 | 65 | 241 | ARR |
| CRJ7 | 13:39:38.534 | DWH PA34 | 1 | 74 | 4605 | 4605 | 38 | 4600 | 3268 | 287 | 42.82 | -41.00 | 12.62 | 287 | 42.90 | 164 | 50 | 73 | 171 | ARR |
| 1M   | 13:39:39.314 | DWH PA34 | 0 | 75 | 4605 | 4605 | 20 | 4600 | 3487 | 306 | 59.02 | -47.62 | 35.00 | 306 | 59.10 | 177 | 69 | 68 | 189 | ARR |
| CRJ7 | 13:39:43.120 | DWH PA34 | 1 | 75 | 4605 | 4605 | 38 | 4500 | 3269 | 287 | 42.62 | -40.81 | 12.62 | 287 | 42.72 | 166 | 44 | 75 | 171 | ARR |
| 1M   | 13:39:43.905 | DWH PA34 | 0 | 76 | 4605 | 4605 | 24 | 4500 | 3490 | 307 | 58.88 | -47.38 | 35.12 | 306 | 58.97 | 184 | 73 | 68 | 197 | ARR |
| CRJ7 | 13:39:47.809 | DWH PA34 | 1 | 76 | 4605 | 4605 | 38 | 4400 | 3271 | 287 | 42.41 | -40.62 | 12.69 | 287 | 42.56 | 168 | 40 | 76 | 172 | ARR |

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|    |              |          |   |    |      |      |    |      |      |     |       |        |       |     |       |     |    |    |     |     |
|----|--------------|----------|---|----|------|------|----|------|------|-----|-------|--------|-------|-----|-------|-----|----|----|-----|-----|
| 1M | 13:39:48.489 | DWH PA34 | 0 | 77 | 4605 | 4605 | 27 | 4400 | 3492 | 307 | 58.73 | -47.12 | 35.19 | 306 | 58.81 | 184 | 69 | 69 | 196 |     |
|    |              | CRJ7     | 1 | 77 | 4605 | 4605 | 38 | 4300 | 3273 | 288 | 42.21 | -40.31 | 12.81 | 287 | 42.30 | 170 | 48 | 74 | 176 | ARR |
| 1M | 13:39:52.403 | DWH PA34 | 0 | 78 | 4605 | 4605 | 30 | 4300 | 3494 | 307 | 58.57 | -47.00 | 35.19 | 306 | 58.71 | 181 | 54 | 73 | 188 |     |
|    |              | CRJ7     | 1 | 78 | 4605 | 4605 | 38 | 4200 | 3276 | 288 | 42.02 | -40.06 | 12.94 | 287 | 42.10 | 172 | 59 | 71 | 181 | ARR |
| 1M | 13:39:56.989 | DWH PA34 | 0 | 79 | 4605 | 4605 | 33 | 4200 | 3495 | 307 | 58.41 | -46.75 | 35.19 | 307 | 58.51 | 179 | 44 | 76 | 184 |     |
|    |              | CRJ7     | 1 | 79 | 4605 | 4605 | 38 | 4200 | 3278 | 288 | 41.80 | -39.88 | 12.94 | 288 | 41.92 | 175 | 54 | 72 | 183 | ARR |
| 1M | 13:40:01.582 | DWH PA34 | 0 | 80 | 4605 | 4605 | 34 | 4200 | 3497 | 307 | 58.25 | -46.50 | 35.25 | 307 | 58.35 | 177 | 40 | 77 | 181 |     |
|    |              | CRJ7     | 1 | 80 | 4605 | 4605 | 38 | 4100 | 3280 | 288 | 41.59 | -39.62 | 13.00 | 288 | 41.70 | 178 | 50 | 74 | 184 | ARR |
| 1M | 13:40:02.364 | DWH PA34 | 0 | 81 | 4605 | 4605 | 35 | 4100 | 3499 | 308 | 58.10 | -46.31 | 35.31 | 307 | 58.24 | 176 | 37 | 78 | 179 |     |
|    |              | CRJ7     | 1 | 81 | 4605 | 4605 | 38 | 4000 | 3283 | 289 | 41.39 | -39.38 | 13.12 | 288 | 41.50 | 180 | 55 | 73 | 188 | ARR |
| 1M | 13:40:06.269 | DWH PA34 | 0 | 82 | 4605 | 4605 | 36 | 4000 | 3501 | 308 | 57.95 | -46.06 | 35.38 | 307 | 58.08 | 174 | 37 | 78 | 177 |     |
|    |              | CRJ7     | 1 | 82 | 4605 | 4605 | 38 | 4000 | 3285 | 289 | 41.18 | -39.19 | 13.19 | 288 | 41.34 | 181 | 55 | 73 | 189 | ARR |
| 1M | 13:40:10.859 | DWH PA34 | 0 | 83 | 4605 | 4605 | 37 | 4000 | 3503 | 308 | 57.80 | -45.81 | 35.44 | 307 | 57.92 | 174 | 36 | 78 | 177 |     |
|    |              | CRJ7     | 1 | 83 | 4605 | 4605 | 38 | 4000 | 3288 | 289 | 40.97 | -38.94 | 13.25 | 288 | 41.13 | 183 | 53 | 73 | 190 | ARR |
| 1M | 13:40:15.447 | DWH PA34 | 0 | 84 | 4605 | 4605 | 38 | 4000 | 3505 | 308 | 57.66 | -45.62 | 35.50 | 307 | 57.81 | 173 | 37 | 78 | 176 |     |
|    |              | CRJ7     | 1 | 84 | 4605 | 4605 | 38 | 4000 | 3291 | 289 | 40.79 | -38.69 | 13.44 | 289 | 40.95 | 182 | 67 | 69 | 193 | ARR |
| 1M | 13:40:20.137 | DWH PA34 | 0 | 85 | 4605 | 4605 | 38 | 4000 | 3508 | 308 | 57.57 | -45.31 | 35.69 | 308 | 57.68 | 171 | 56 | 71 | 179 |     |
|    |              | CRJ7     | 1 | 85 | 4605 | 4605 | 38 | 4000 | 3292 | 289 | 40.56 | -38.50 | 13.38 | 289 | 40.75 | 186 | 52 | 74 | 193 | ARR |
| 1M | 13:40:24.625 | DWH PA34 | 0 | 86 | 4605 | 4605 | 38 | 4000 | 3510 | 308 | 57.46 | -45.06 | 35.75 | 308 | 57.52 | 171 | 62 | 70 | 181 |     |
|    |              | CRJ7     | 1 | 86 | 4605 | 4605 | 38 | 4000 | 3295 | 290 | 40.37 | -38.25 | 13.44 | 289 | 40.54 | 184 | 54 | 73 | 191 | ARR |
| 1M | 13:40:29.312 | DWH PA34 | 0 | 87 | 4605 | 4605 | 38 | 4100 | 3512 | 309 | 57.30 | -44.94 | 35.75 | 308 | 57.42 | 172 | 54 | 72 | 180 |     |
|    |              | CRJ7     | 1 | 87 | 4605 | 4605 | 38 | 4100 | 3298 | 290 | 40.20 | -38.00 | 13.56 | 289 | 40.35 | 182 | 61 | 71 | 191 | ARR |
| 1M | 13:40:29.997 | DWH PA34 | 0 | 88 | 4605 | 4605 | 38 | 4100 | 3514 | 309 | 57.19 | -44.69 | 35.88 | 308 | 57.30 | 172 | 58 | 71 | 181 |     |
|    |              | CRJ7     | 1 | 88 | 4605 | 4605 | 38 | 4000 | 3300 | 290 | 40.01 | -37.81 | 13.62 | 289 | 40.19 | 181 | 61 | 71 | 191 | ARR |

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|              |          | ~0831689.txt |      |      |    |      |      |     |       |        |       |     |       |     |     |    |     |
|--------------|----------|--------------|------|------|----|------|------|-----|-------|--------|-------|-----|-------|-----|-----|----|-----|
| 13:41:34.544 | CRJ7     | 159          | 4605 | 4605 | 38 | 4100 | 3540 | 311 | 55.48 | -42.00 | 36.44 | 311 | 55.60 | 176 | 6   | 88 | 176 |
| 13:41:38.457 | N4171Z   | 340          | 4605 | 4605 | 38 | 4100 | 3324 | 292 | 37.75 | -35.12 | 14.25 | 292 | 37.90 | 176 | 15  | 85 | 176 |
| 13:41:39.142 | L17 PA34 | 0            | 101  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:41:43.048 | CRJ7     | 159          | 4605 | 4605 | 38 | 4100 | 3541 | 311 | 55.30 | -41.81 | 36.44 | 311 | 55.46 | 174 | -2  | 90 | 174 |
| 13:41:43.723 | N4171Z   | 340          | 4605 | 4605 | 38 | 4100 | 3326 | 292 | 37.54 | -34.94 | 14.19 | 292 | 37.71 | 175 | 11  | 86 | 175 |
| 13:41:47.735 | L17 PA34 | 0            | 102  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:41:48.313 | CRJ7     | 159          | 4605 | 4605 | 38 | 4100 | 3542 | 311 | 55.13 | -41.62 | 36.44 | 311 | 55.32 | 172 | -5  | 91 | 172 |
| 13:41:52.319 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3327 | 292 | 37.34 | -34.75 | 14.19 | 292 | 37.53 | 173 | 5   | 88 | 173 |
| 13:41:53.001 | L17 PA34 | 0            | 103  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:41:56.914 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3545 | 312 | 55.00 | -41.31 | 36.50 | 311 | 55.12 | 172 | 7   | 87 | 172 |
| 13:41:57.590 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3327 | 292 | 37.13 | -34.50 | 14.12 | 292 | 37.28 | 172 | -3  | 91 | 172 |
| 13:42:01.601 | L17 PA34 | 0            | 104  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:02.181 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3546 | 312 | 54.84 | -41.12 | 36.50 | 311 | 54.98 | 171 | 6   | 88 | 171 |
| 13:42:06.284 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3329 | 293 | 36.94 | -34.31 | 14.19 | 292 | 37.13 | 171 | -1  | 90 | 171 |
| 13:42:06.771 | L17 PA34 | 0            | 105  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:10.880 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3548 | 312 | 54.69 | -40.88 | 36.50 | 311 | 54.80 | 170 | 6   | 88 | 170 |
| 13:42:11.362 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3333 | 293 | 36.55 | -33.81 | 14.25 | 292 | 36.69 | 171 | 9   | 87 | 171 |
| 13:42:15.466 | L17 PA34 | 0            | 106  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:15.950 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3552 | 312 | 54.38 | -40.44 | 36.56 | 312 | 54.52 | 169 | 10  | 86 | 169 |
| 13:42:20.057 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3334 | 293 | 36.35 | -33.62 | 14.19 | 292 | 36.49 | 171 | 5   | 88 | 171 |
| 13:42:20.639 | L17 PA34 | 0            | 107  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:24.745 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3554 | 312 | 54.23 | -40.19 | 36.56 | 312 | 54.33 | 169 | 11  | 86 | 169 |
| 13:42:25.272 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3336 | 293 | 36.14 | -33.38 | 14.25 | 293 | 36.29 | 172 | 6   | 88 | 172 |
| 13:42:29.335 | L17 PA34 | 0            | 108  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:29.335 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3556 | 313 | 54.06 | -40.06 | 36.50 | 312 | 54.20 | 168 | 4   | 88 | 168 |
| 13:42:29.335 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3338 | 293 | 35.95 | -33.19 | 14.25 | 293 | 36.12 | 173 | 9   | 87 | 173 |
| 13:42:29.335 | L17 PA34 | 0            | 109  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:29.335 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3557 | 313 | 53.91 | -39.81 | 36.56 | 312 | 54.05 | 168 | 2   | 89 | 168 |
| 13:42:29.335 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3340 | 294 | 35.75 | -32.94 | 14.25 | 293 | 35.89 | 174 | 11  | 86 | 174 |
| 13:42:29.335 | L17 PA34 | 0            | 110  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:29.335 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3558 | 313 | 53.71 | -39.69 | 36.44 | 312 | 53.88 | 165 | -14 | 94 | 165 |
| 13:42:29.335 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3342 | 294 | 35.54 | -32.69 | 14.31 | 293 | 35.68 | 175 | 13  | 85 | 175 |
| 13:42:29.335 | L17 PA34 | 0            | 111  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |
| 13:42:29.335 | CRJ7     | 159          | 4605 | 4605 | 38 | 4000 | 3559 | 313 | 53.54 | -39.54 | 14.31 | 293 | 35.68 | 175 | 13  | 85 | 175 |
| 13:42:29.335 | N4171Z   | 340          | 4605 | 4605 | 38 | 4000 | 3343 | 294 | 35.44 | -32.54 | 14.31 | 293 | 35.68 | 175 | 13  | 85 | 175 |
| 13:42:29.335 | L17 PA34 | 0            | 112  |      |    |      |      |     |       |        |       |     |       |     |     |    | ARR |

13:42:29.818 CRJ7 159 4605 4605 38 4000 3559 313 53.55 -39.50 36.44 312 53.74 161 -18 96 162  
13:42:33.925 N4171Z 340 4605 4605 38 4000 3344 294 35.33 -32.50 14.25 293 35.48 175 6 88 175  
1M L17 PA34 0 113  
13:42:34.407 CRJ7 159 4605 4605 38 4000 3561 313 53.40 -39.25 36.44 312 53.55 159 -15 95 159  
13:42:38.512 N4171Z 340 4605 4605 38 4100 3346 294 35.13 -32.25 14.31 294 35.28 174 5 88 174  
1M L17 PA34 0 114  
13:42:39.095 CRJ7 159 4605 4605 38 4100 3563 313 53.26 -39.00 36.50 313 53.41 159 -7 92 159  
13:42:43.203 N4171Z 340 4605 4605 38 4100 3347 294 34.94 -32.06 14.31 294 35.11 174 7 87 174  
1M L17 PA34 0 115  
13:42:43.687 CRJ7 159 4605 4605 38 4100 3565 313 53.14 -38.75 36.56 313 53.27 161 8 87 161  
13:42:47.792 N4171Z 340 4605 4605 38 4000 3349 294 34.74 -31.88 14.25 294 34.91 172 1 89 172  
1M L17 PA34 0 116  
13:42:48.276 CRJ7 159 4605 4605 38 4000 3568 314 53.02 -38.50 36.56 313 53.09 162 15 84 162  
13:42:52.376 N4171Z 340 4605 4605 38 4000 3351 295 34.55 -31.62 14.31 294 34.71 173 9 87 173  
1M L17 PA34 0 117  
13:42:52.865 CRJ7 159 4605 4605 38 4000 3570 314 52.87 -38.31 36.56 313 52.96 163 16 84 163  
1M L17 PA34 0 117

TRACKING DATA (TD), RAPTOR Program 11/ 6/05 PAGE 5  
TIME TRK ABC RBC FRM RALT PACP PDEG PRAN X Y DDEG DRAN XV YV HDG SPD MI DI ADS  
C ETG RO S SP AT SYS SCAN  
13:42:56.972 N4171Z 340 4605 4605 38 4000 3353 295 34.34 -31.38 14.31 294 34.48 172 4 88 172  
1M L17 PA34 0 118  
13:42:57.553 CRJ7 159 4605 4605 38 4000 3573 314 52.73 -38.00 36.62 314 52.77 165 23 82 166  
13:43:01.659 N4171Z 340 4605 4605 38 4000 3355 295 34.15 -31.12 14.38 294 34.28 174 11 86 174  
1M L17 PA34 0 119  
13:43:02.142 CRJ7 159 4605 4605 38 4000 3575 314 52.58 -37.81 36.62 314 52.64 167 22 82 168  
13:43:06.244 N4171Z 340 4605 4605 38 4100 3358 295 33.96 -30.94 14.38 295 34.11 174 14 85 174  
1M L17 PA34 0 120  
13:43:06.732 CRJ7 159 4605 4605 38 4100 3578 314 52.44 -37.50 36.69 314 52.46 170 26 81 171  
13:43:10.836 N4171Z 340 4605 4605 38 4000 3359 295 33.75 -30.69 14.31 295 33.86 174 5 88 174  
1M L17 PA34 0 121  
13:43:11.329 CRJ7 159 4605 4605 38 4000 3580 315 52.29 -37.31 36.75 314 52.37 172 25 81 173  
13:43:15.428 N4171Z 340 4605 4605 38 4000 3362 295 33.55 -30.50 14.38 295 33.71 175 10 86 175  
1M L17 PA34 0 122  
13:43:15.913 CRJ7 159 4605 4605 38 4000 3583 315 52.11 -37.06 36.69 314 52.15 175 18 84 175  
13:43:20.117 N4171Z 340 4605 4605 38 4000 3364 296 33.36 -30.25 14.44 295 33.52 176 19 83 177  
1M L17 PA34 0 123  
13:43:20.502 CRJ7 159 4605 4605 38 4000 3584 315 51.92 -36.88 36.69 314 52.02 175 5 88 175  
1M L17 PA34 0 123

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|                    |                            |               |                    |         |      |      |     |       |        |       |     |       |     |    |    |     |     |
|--------------------|----------------------------|---------------|--------------------|---------|------|------|-----|-------|--------|-------|-----|-------|-----|----|----|-----|-----|
| 13:43:24.702<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 123<br>4605<br>124 | 4605 38 | 4000 | 3366 | 296 | 33.16 | -30.06 | 14.44 | 295 | 33.35 | 176 | 13 | 85 | 176 | ARR |
| 13:43:25.287       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 124<br>4605<br>125 | 4605 38 | 4000 | 3586 | 315 | 51.75 | -36.69 | 36.69 | 315 | 51.88 | 175 | 1  | 89 | 175 | ARR |
| 13:43:29.291<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 124<br>4605<br>125 | 4605 38 | 4000 | 3368 | 296 | 32.96 | -29.81 | 14.44 | 295 | 33.12 | 176 | 8  | 87 | 176 | ARR |
| 13:43:29.973       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 125<br>4605<br>126 | 4605 38 | 4000 | 3588 | 315 | 51.59 | -36.44 | 36.69 | 315 | 51.71 | 174 | 0  | 90 | 174 | ARR |
| 13:43:33.884<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 125<br>4605<br>126 | 4605 38 | 4000 | 3370 | 296 | 32.75 | -29.56 | 14.44 | 296 | 32.90 | 176 | 4  | 88 | 176 | ARR |
| 13:43:34.565       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 126<br>4605<br>127 | 4605 38 | 4000 | 3590 | 316 | 51.45 | -36.19 | 36.75 | 315 | 51.57 | 174 | 6  | 88 | 174 | ARR |
| 13:43:38.573<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 126<br>4605<br>127 | 4605 38 | 4000 | 3372 | 296 | 32.56 | -29.38 | 14.44 | 296 | 32.73 | 175 | 3  | 89 | 175 | ARR |
| 13:43:39.157       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 127<br>4605<br>128 | 4605 38 | 4000 | 3592 | 316 | 51.29 | -36.00 | 36.69 | 315 | 51.40 | 173 | 2  | 89 | 173 | ARR |
| 13:43:43.164<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 127<br>4605<br>128 | 4605 38 | 4000 | 3375 | 297 | 32.38 | -29.12 | 14.50 | 296 | 32.53 | 175 | 11 | 86 | 175 | ARR |
| 13:43:43.840       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 128<br>4605<br>129 | 4605 38 | 4000 | 3594 | 316 | 51.14 | -35.81 | 36.69 | 315 | 51.27 | 172 | 1  | 89 | 172 | ARR |
| 13:43:47.749<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 128<br>4605<br>129 | 4605 38 | 4000 | 3377 | 297 | 32.18 | -28.94 | 14.50 | 296 | 32.36 | 175 | 11 | 86 | 175 | ARR |
| 13:43:48.333       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 129<br>4605<br>130 | 4605 38 | 4000 | 3597 | 316 | 51.00 | -35.50 | 36.75 | 316 | 51.09 | 172 | 6  | 88 | 172 | ARR |
| 13:43:52.338<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 129<br>4605<br>130 | 4605 38 | 3900 | 3379 | 297 | 31.98 | -28.69 | 14.50 | 296 | 32.14 | 175 | 8  | 87 | 175 | ARR |
| 13:43:53.026       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 130<br>4605<br>131 | 4605 38 | 3900 | 3599 | 316 | 50.86 | -35.31 | 36.75 | 316 | 50.96 | 172 | 7  | 87 | 172 | ARR |
| 13:43:56.935<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 130<br>4605<br>131 | 4605 38 | 3900 | 3381 | 297 | 31.77 | -28.44 | 14.50 | 297 | 31.92 | 175 | 4  | 88 | 175 | ARR |
| 13:43:57.610       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 131<br>4605<br>132 | 4605 38 | 3900 | 3601 | 316 | 50.70 | -35.06 | 36.75 | 316 | 50.79 | 172 | 5  | 88 | 172 | ARR |
| 13:44:01.617<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 131<br>4605<br>132 | 4605 38 | 3800 | 3384 | 297 | 31.57 | -28.19 | 14.50 | 297 | 31.70 | 177 | 7  | 87 | 177 | ARR |
| 13:44:02.207       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 132<br>4605<br>133 | 4605 38 | 3800 | 3604 | 317 | 50.55 | -34.81 | 36.81 | 316 | 50.66 | 173 | 10 | 86 | 173 | ARR |
| 13:44:06.210<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 132<br>4605<br>133 | 4605 38 | 3700 | 3386 | 298 | 31.36 | -28.00 | 14.50 | 297 | 31.53 | 179 | 5  | 88 | 179 | ARR |
| 13:44:06.888       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 133<br>4605<br>134 | 4605 38 | 3700 | 3605 | 317 | 50.38 | -34.62 | 36.75 | 316 | 50.49 | 173 | 2  | 89 | 173 | ARR |
| 13:44:10.800<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 133<br>4605<br>134 | 4605 38 | 3600 | 3388 | 298 | 31.14 | -27.75 | 14.50 | 297 | 31.31 | 180 | 0  | 90 | 180 | ARR |
| 13:44:11.478       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 134<br>4605<br>135 | 4605 38 | 3600 | 3608 | 317 | 50.23 | -34.38 | 36.75 | 317 | 50.32 | 173 | 4  | 88 | 173 | ARR |
| 13:44:15.390<br>1M | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 134<br>4605<br>135 | 4605 38 | 3600 | 3392 | 298 | 30.93 | -27.44 | 14.56 | 298 | 31.06 | 184 | 11 | 86 | 184 | ARR |
| 13:44:16.068       | CRJ7<br>N4171Z<br>L17 PA34 | 1<br>340<br>0 | 135<br>4605<br>136 | 4605 38 | 3600 | 3610 | 317 | 50.09 | -34.06 | 36.81 | 317 | 50.15 | 175 | 8  | 87 | 175 | ARR |

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|                                               |        |     |      |     |      |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
|-----------------------------------------------|--------|-----|------|-----|------|------|----|------|------|------|-------|--------|-------|------|-------|-----|-----|-----|-----|-----|----|-----|
| 13:44:19.981                                  | CRJ7   | 1   | 135  | 340 | 4605 | 4605 | 38 | 3500 | 3394 | 298  | 30.70 | -27.25 | 14.50 | 298  | 30.87 | 186 | 1   | 89  | 186 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 136  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:20.660                                  | CRJ7   | 1   | 136  | 159 | 4605 | 4605 | 38 | 3500 | 3613 | 318  | 49.92 | -33.88 | 36.81 | 317  | 50.02 | 176 | 5   | 88  | 176 |     |    |     |
| 13:44:24.663                                  | CRJ7   | 1   | 136  | 340 | 4605 | 4605 | 38 | 3400 | 3397 | 299  | 30.49 | -26.94 | 14.56 | 298  | 30.62 | 189 | 8   | 87  | 189 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 137  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:25.248                                  | CRJ7   | 1   | 137  | 159 | 4605 | 4605 | 38 | 3400 | 3616 | 318  | 49.76 | -33.56 | 36.81 | 317  | 49.81 | 178 | 9   | 87  | 178 |     |    |     |
| 13:44:29.353                                  | CRJ7   | 1   | 137  | 340 | 4605 | 4605 | 38 | 3400 | 3399 | 299  | 30.25 | -26.69 | 14.50 | 298  | 30.37 | 192 | 4   | 88  | 192 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 138  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:29.936                                  | CRJ7   | 1   | 138  | 159 | 4605 | 4605 | 38 | 3400 | 3618 | 318  | 49.59 | -33.38 | 36.81 | 317  | 49.69 | 180 | 4   | 88  | 180 |     |    |     |
| 13:44:33.944                                  | CRJ7   | 1   | 138  | 340 | 4605 | 4605 | 38 | 3300 | 3402 | 299  | 30.03 | -26.44 | 14.56 | 298  | 30.18 | 193 | 5   | 88  | 193 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 139  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:34.526                                  | CRJ7   | 1   | 139  | 159 | 4605 | 4605 | 38 | 3300 | 3620 | 318  | 49.41 | -33.12 | 36.75 | 318  | 49.47 | 181 | -1  | 90  | 181 |     |    |     |
| 13:44:38.536                                  | CRJ7   | 1   | 139  | 340 | 4605 | 4605 | 38 | 3300 | 3405 | 299  | 29.80 | -26.19 | 14.50 | 299  | 29.93 | 195 | -1  | 90  | 195 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 140  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:39.116                                  | CRJ7   | 1   | 140  | 159 | 4605 | 4605 | 38 | 3300 | 3623 | 318  | 49.23 | -32.81 | 36.81 | 318  | 49.31 | 182 | 0   | 90  | 182 |     |    |     |
| 13:44:43.125                                  | CRJ7   | 1   | 140  | 340 | 4605 | 4605 | 38 | 3200 | 3407 | 299  | 29.57 | -25.94 | 14.50 | 299  | 29.71 | 196 | 0   | 90  | 196 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 141  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:43.705                                  | CRJ7   | 1   | 141  | 159 | 4605 | 4605 | 38 | 3200 | 3625 | 319  | 49.05 | -32.62 | 36.75 | 318  | 49.14 | 183 | -3  | 91  | 183 |     |    |     |
| 13:44:47.715                                  | CRJ7   | 1   | 141  | 340 | 4605 | 4605 | 38 | 3200 | 3410 | 300  | 29.34 | -25.69 | 14.50 | 299  | 29.50 | 196 | -6  | 91  | 196 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 142  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:48.295                                  | CRJ7   | 1   | 142  | 159 | 4605 | 4605 | 38 | 3100 | 3627 | 319  | 48.87 | -32.38 | 36.75 | 318  | 48.97 | 184 | -9  | 92  | 184 |     |    |     |
| 13:44:52.402                                  | CRJ7   | 1   | 142  | 340 | 4605 | 4605 | 38 | 3100 | 3412 | 300  | 29.11 | -25.50 | 14.50 | 299  | 29.33 | 194 | -12 | 93  | 194 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 143  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:52.986                                  | CRJ7   | 1   | 143  | 159 | 4605 | 4605 | 38 | 3100 | 3630 | 319  | 48.71 | -32.12 | 36.75 | 318  | 48.81 | 185 | -4  | 91  | 185 |     |    |     |
| 13:44:56.992                                  | CRJ7   | 1   | 143  | 340 | 4605 | 4605 | 38 | 3100 | 3415 | 300  | 28.90 | -25.19 | 14.50 | 300  | 29.06 | 196 | -2  | 90  | 196 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 144  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:44:57.573                                  | CRJ7   | 1   | 144  | 159 | 4605 | 4605 | 38 | 3100 | 3632 | 319  | 48.54 | -31.88 | 36.75 | 319  | 48.64 | 185 | -6  | 91  | 185 |     |    |     |
| DTTRACKING DATA (TD), RAPTOR Program 11/ 6/05 | ACID   | TRK | ABC  | RBC | FRM  | RALT |    |      | PACP | PDEG | PRAN  | X      | Y     | DDEG | DRAN  | XV  | YV  | HDG | SPD | MI  | DI | ADS |
| C ETG RO S SP AT                              |        |     |      |     |      |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:45:01.583                                  | N4171Z | L17 | PA34 | 0   | 145  |      |    |      | 3418 | 300  | 28.68 | -24.94 | 14.50 | 300  | 28.84 | 195 | -4  | 91  | 195 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 145  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:45:02.260                                  | CRJ7   | 1   | 145  | 159 | 4605 | 4605 | 38 | 3000 | 3635 | 319  | 48.38 | -31.62 | 36.75 | 319  | 48.48 | 186 | -2  | 90  | 186 |     |    |     |
| 13:45:06.167                                  | CRJ7   | 1   | 145  | 340 | 4605 | 4605 | 38 | 3000 | 3421 | 301  | 28.48 | -24.75 | 14.50 | 300  | 28.68 | 195 | -1  | 90  | 195 | ARR |    |     |
| 1M                                            | N4171Z | L17 | PA34 | 0   | 146  |      |    |      |      |      |       |        |       |      |       |     |     |     |     |     |    |     |
| 13:45:06.849                                  | CRJ7   | 1   | 146  | 159 | 4605 | 4605 | 38 | 3000 | 3637 | 320  | 48.21 | -31.38 | 36.75 | 319  | 48.32 | 186 | -4  | 91  | 186 |     |    |     |

|              |                    | ~0831689.txt |      |      |    |      |      |     |       |        |       |     |       |     |    |    |     |     |
|--------------|--------------------|--------------|------|------|----|------|------|-----|-------|--------|-------|-----|-------|-----|----|----|-----|-----|
| 13:45:10.858 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3000 | 3424 | 301 | 28.27 | -24.50 | 14.50 | 300 | 28.47 | 194 | 1  | 89 | 194 | ARR |
| 13:45:11.443 | CRJ7               | 159          | 4605 | 4605 | 38 | 3000 | 3640 | 320 | 48.05 | -31.12 | 36.75 | 319 | 48.16 | 187 | -1 | 90 | 187 |     |
| 13:45:15.447 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3000 | 3428 | 301 | 28.08 | -24.25 | 14.56 | 301 | 28.29 | 194 | 11 | 86 | 194 | ARR |
| 13:45:16.035 | CRJ7               | 159          | 4605 | 4605 | 38 | 3000 | 3643 | 320 | 47.89 | -30.94 | 36.75 | 320 | 48.04 | 186 | -1 | 90 | 186 |     |
| 13:45:20.039 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3000 | 3430 | 301 | 27.88 | -24.00 | 14.50 | 301 | 28.04 | 192 | 5  | 88 | 192 | ARR |
| 13:45:20.716 | CRJ7               | 159          | 4605 | 4605 | 38 | 3000 | 3646 | 320 | 47.77 | -30.56 | 36.81 | 320 | 47.84 | 188 | 9  | 87 | 188 |     |
| 13:45:24.725 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3433 | 302 | 27.68 | -23.75 | 14.56 | 301 | 27.86 | 190 | 5  | 88 | 190 | ARR |
| 13:45:25.209 | CRJ7               | 159          | 4605 | 4605 | 38 | 3100 | 3648 | 321 | 47.63 | -30.38 | 36.81 | 320 | 47.72 | 188 | 12 | 86 | 188 |     |
| 13:45:29.317 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3436 | 302 | 27.50 | -23.56 | 14.56 | 301 | 27.70 | 188 | 5  | 88 | 188 | ARR |
| 13:45:29.900 | CRJ7               | 159          | 4605 | 4605 | 38 | 3100 | 3651 | 321 | 47.50 | -30.12 | 36.88 | 320 | 47.61 | 188 | 16 | 85 | 188 |     |
| 13:45:33.904 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3440 | 302 | 27.31 | -23.31 | 14.56 | 302 | 27.48 | 187 | 13 | 86 | 187 | ARR |
| 13:45:34.490 | CRJ7               | 159          | 4605 | 4605 | 38 | 3100 | 3653 | 321 | 47.31 | -30.06 | 36.75 | 320 | 47.48 | 185 | -2 | 90 | 185 |     |
| 13:45:38.492 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3443 | 303 | 27.12 | -23.06 | 14.56 | 302 | 27.27 | 186 | 13 | 86 | 186 | ARR |
| 13:45:39.079 | CRJ7               | 159          | 4605 | 4605 | 38 | 3100 | 3656 | 321 | 47.21 | -29.69 | 36.88 | 321 | 47.34 | 185 | 10 | 87 | 185 |     |
| 13:45:43.086 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3447 | 303 | 26.94 | -22.81 | 14.62 | 302 | 27.10 | 185 | 10 | 87 | 185 | ARR |
| 13:45:43.667 | CRJ7               | 159          | 4605 | 4605 | 35 | CST  | 3659 | 322 | 47.07 | -29.44 | 36.88 | 321 | 47.18 | 185 | 10 | 87 | 185 |     |
| 13:45:47.772 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3450 | 303 | 26.76 | -22.62 | 14.62 | 302 | 26.94 | 182 | 9  | 87 | 182 | ARR |
| 13:45:48.361 | CRJ7               | 159          | 4605 | 4605 | 36 | 3100 | 3661 | 322 | 46.93 | -29.31 | 36.81 | 321 | 47.05 | 184 | 9  | 87 | 184 |     |
| 13:45:52.362 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3453 | 303 | 26.57 | -22.38 | 14.62 | 303 | 26.73 | 180 | 6  | 88 | 180 | ARR |
| 13:45:52.950 | CRJ7               | 159          | 4605 | 4605 | 37 | 3100 | 3664 | 322 | 46.82 | -29.00 | 36.94 | 321 | 46.96 | 183 | 17 | 84 | 183 |     |
| 13:45:56.951 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3455 | 304 | 26.38 | -22.19 | 14.62 | 303 | 26.57 | 179 | 1  | 89 | 179 | ARR |
| 13:45:57.536 | CRJ7               | 159          | 4605 | 4605 | 38 | 3100 | 3667 | 322 | 46.70 | -28.81 | 36.88 | 322 | 46.79 | 182 | 15 | 85 | 182 |     |
| 13:46:01.547 | N4171Z<br>L17 PA34 | 340          | 4605 | 4605 | 38 | 3100 | 3459 | 304 | 26.21 | -21.94 | 14.62 | 303 | 26.36 | 179 | 8  | 87 | 179 | ARR |
| 13:46:02.126 | CRJ7               | 159          | 4605 | 4605 | 35 | CST  | 3670 | 323 | 46.57 | -28.50 | 36.94 | 322 | 46.65 | 182 | 15 | 85 | 182 |     |

| Time         | Lat      | Long | Alt  | Speed | Heading | Temp | Humidity | Pressure | Wind  | Wave   | Visibility | Clouds | Remarks |     |     |     |     |     |
|--------------|----------|------|------|-------|---------|------|----------|----------|-------|--------|------------|--------|---------|-----|-----|-----|-----|-----|
| 13:46:06.330 | N4171Z   | 1340 | 4605 | 4605  | 38      | 3100 | 3462     | 304      | 26.03 | -21.69 | 14.62      | 304    | 26.16   | 178 | 7   | 87  | 178 | ARR |
| 13:46:06.715 | L17 PA34 | 159  | 4605 | 4605  | 33      | CST  | 3673     | 323      | 46.44 | -28.25 | 36.94      | 322    | 46.50   | 182 | 15  | 85  | 182 | ARR |
| 13:46:10.918 | N4171Z   | 340  | 4605 | 4605  | 38      | 3100 | 3466     | 305      | 25.86 | -21.50 | 14.69      | 304    | 26.04   | 178 | 13  | 85  | 178 | ARR |
| 13:46:15.508 | L17 PA34 | 340  | 4605 | 4605  | 38      | 3000 | 3469     | 305      | 25.68 | -21.25 | 14.69      | 304    | 25.83   | 177 | 9   | 87  | 177 | ARR |
| 13:46:20.193 | L17 PA34 | 340  | 4605 | 4605  | 38      | 3000 | 3472     | 305      | 25.49 | -21.00 | 14.62      | 304    | 25.59   | 177 | 3   | 89  | 177 | ARR |
| 13:46:24.785 | N4171Z   | 340  | 4605 | 4605  | 38      | 2900 | 3476     | 306      | 25.30 | -20.81 | 14.69      | 305    | 25.47   | 177 | 4   | 88  | 177 | ARR |
| 13:46:29.374 | L17 PA34 | 340  | 4605 | 4605  | 38      | 2800 | 3480     | 306      | 25.12 | -20.56 | 14.69      | 305    | 25.27   | 179 | 8   | 87  | 179 | ARR |
| 13:46:33.964 | L17 PA34 | 340  | 4605 | 4605  | 38      | 2800 | 3483     | 306      | 24.93 | -20.31 | 14.69      | 305    | 25.06   | 179 | 3   | 89  | 179 | ARR |
| 13:46:38.548 | N4171Z   | 340  | 4605 | 4605  | 38      | 2700 | 3487     | 306      | 24.75 | -20.06 | 14.69      | 306    | 24.86   | 180 | 3   | 89  | 180 | ARR |
| 13:46:43.239 | L17 PA34 | 340  | 4605 | 4605  | 38      | 2600 | 3491     | 307      | 24.56 | -19.81 | 14.69      | 306    | 24.66   | 181 | 5   | 88  | 181 | ARR |
| 13:46:43.635 | L17 PA34 | 335  | 4605 | 4605  | 7       | 2600 | 3690     | 324      | 45.50 | -26.44 | 37.00      | 324    | 45.47   | 0   | 0   | 0   | 0   | ARR |
| 13:46:47.833 | N4171Z   | 340  | 4605 | 4605  | 38      | 2600 | 3495     | 307      | 24.38 | -19.62 | 14.69      | 306    | 24.51   | 182 | 6   | 88  | 182 | ARR |
| 13:46:48.222 | L17 PA34 | 335  | 4605 | 4605  | 15      | 2600 | 3692     | 324      | 45.28 | -26.31 | 36.94      | 324    | 45.35   | 95  | -38 | 111 | 102 | ARR |
| 13:46:52.420 | N4171Z   | 340  | 4605 | 4605  | 38      | 2700 | 3499     | 308      | 24.20 | -19.38 | 14.75      | 307    | 24.35   | 183 | 8   | 87  | 183 | ARR |
| 13:46:52.810 | L17 PA34 | 335  | 4605 | 4605  | 20      |      | 3698     | 325      | 45.12 | -26.00 | 36.94      | 324    | 45.17   | 189 | 11  | 86  | 189 | ARR |
| 13:46:57.013 | N4171Z   | 340  | 4605 | 4605  | 38      | 2700 | 3504     | 308      | 24.02 | -19.12 | 14.75      | 307    | 24.15   | 182 | 10  | 86  | 182 | ARR |
| 13:46:57.401 | L17 PA34 | 335  | 4605 | 4605  | 24      | 2700 | 3700     | 325      | 45.00 | -25.81 | 36.94      | 325    | 45.06   | 182 | 7   | 87  | 182 | ARR |
| 13:47:01.700 | N4171Z   | 340  | 4605 | 4605  | 38      | 2600 | 3507     | 308      | 23.84 | -18.94 | 14.75      | 308    | 24.00   | 181 | 3   | 89  | 181 | ARR |
| 13:47:02.091 | L17 PA34 | 335  | 4605 | 4605  | 27      | 2600 | 3703     | 325      | 44.86 | -25.62 | 36.94      | 325    | 44.95   | 175 | 0   | 90  | 175 | ARR |
| 13:47:06.291 | N4171Z   | 340  | 4605 | 4605  | 38      | 2600 | 3511     | 309      | 23.67 | -18.69 | 14.75      | 308    | 23.80   | 179 | 2   | 89  | 179 | ARR |
| 13:47:06.681 | L17 PA34 | 335  | 4605 | 4605  | 30      |      | 3706     | 326      | 44.76 | -25.31 | 37.00      | 325    | 44.83   | 181 | 12  | 86  | 181 | ARR |
| 13:47:10.875 | N4171Z   | 340  | 4605 | 4605  | 38      | 2600 | 3515     | 309      | 23.50 | -18.50 | 14.75      | 308    | 23.66   | 178 | 3   | 89  | 178 | ARR |
| 13:47:11.268 | L17 PA34 | 335  | 4605 | 4605  | 33      | 2600 | 3709     | 326      | 44.64 | -25.12 | 37.00      | 325    | 44.72   | 180 | 13  | 85  | 180 | ARR |
| 13:47:15.469 | N4171Z   | 340  | 4605 | 4605  | 38      | 2500 | 3519     | 309      | 23.33 | -18.25 | 14.75      | 309    | 23.46   | 177 | 3   | 89  | 177 | ARR |

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|                                             |          |     |      |      |     |      |      |      |       |        |       |      |       |     |     |     |               |
|---------------------------------------------|----------|-----|------|------|-----|------|------|------|-------|--------|-------|------|-------|-----|-----|-----|---------------|
| 13:47:15.863                                | B733     | 335 | 4605 | 4605 | 34  | 2500 | 3713 | 326  | 44.55 | -24.75 | 37.06 | 326  | 44.57 | 183 | 25  | 82  | 184           |
| 13:47:20.061                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2500 | 3523 | 310  | 23.16 | -18.06 | 14.75 | 309  | 23.32 | 176 | 3   | 89  | 176           |
| 1Q                                          | L17 PA34 | 0   | 175  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| TRACKING DATA (TD), RAPTOR Program 11/ 6/05 |          |     |      |      |     |      |      |      |       |        |       |      |       |     |     |     |               |
| TIME                                        | ACID     | TRK | ABC  | RBC  | FRM | RALT | PACP | PDEG | PRAN  | X      | Y     | DDEG | DRAN  | XV  | YV  | HDG | SPD MI DI ADS |
| 13:47:20.637                                | B733     | 335 | 4605 | 4605 | 35  | 2500 | 3716 | 327  | 44.41 | -24.62 | 37.06 | 326  | 44.50 | 183 | 14  | 85  | 183           |
| 13:47:24.743                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2500 | 3526 | 310  | 23.00 | -17.81 | 14.75 | 309  | 23.12 | 175 | 2   | 89  | 175           |
| 1Q                                          | L17 PA34 | 0   | 176  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:25.228                                | B733     | 335 | 4605 | 4605 | 36  | 2500 | 3719 | 327  | 44.29 | -24.38 | 37.06 | 326  | 44.36 | 184 | 12  | 86  | 184           |
| 13:47:29.335                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2400 | 3530 | 310  | 22.82 | -17.56 | 14.75 | 310  | 22.93 | 175 | -1  | 90  | 175           |
| 1Q                                          | L17 PA34 | 0   | 177  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:29.826                                | B733     | 335 | 4605 | 4605 | 37  | 2400 | 3722 | 327  | 44.13 | -24.19 | 37.00 | 326  | 44.20 | 184 | 0   | 90  | 184           |
| 13:47:33.926                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2400 | 3533 | 311  | 22.61 | -17.38 | 14.69 | 310  | 22.75 | 173 | -18 | 96  | 173           |
| 1Q                                          | L17 PA34 | 0   | 178  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:34.504                                | B733     | 335 | 4605 | 4605 | 38  | 2400 | 3724 | 327  | 43.95 | -23.94 | 37.00 | 327  | 44.07 | 182 | -15 | 94  | 182           |
| 13:47:38.609                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2400 | 3536 | 311  | 22.41 | -17.12 | 14.62 | 310  | 22.52 | 173 | -25 | 98  | 174           |
| 1Q                                          | L17 PA34 | 0   | 179  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:39.095                                | B733     | 335 | 4605 | 4605 | 38  | 2400 | 3726 | 327  | 43.76 | -23.75 | 36.94 | 327  | 43.91 | 179 | -30 | 99  | 181           |
| 13:47:43.199                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2300 | 3539 | 311  | 22.21 | -16.94 | 14.62 | 310  | 22.38 | 171 | -30 | 100 | 173           |
| 1Q                                          | L17 PA34 | 0   | 180  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:43.684                                | B733     | 335 | 4605 | 4605 | 38  | 2300 | 3728 | 328  | 43.59 | -23.56 | 36.88 | 327  | 43.76 | 174 | -40 | 103 | 178           |
| 13:47:47.794                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2300 | 3541 | 311  | 22.01 | -16.75 | 14.56 | 311  | 22.19 | 168 | -41 | 103 | 172           |
| 1Q                                          | L17 PA34 | 0   | 181  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:48.274                                | B733     | 335 | 4605 | 4605 | 38  | 2300 | 3729 | 328  | 43.42 | -23.38 | 36.81 | 327  | 43.61 | 168 | -47 | 105 | 174           |
| 13:47:52.385                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2300 | 3543 | 311  | 21.82 | -16.56 | 14.50 | 311  | 22.01 | 165 | -43 | 104 | 170           |
| 1Q                                          | L17 PA34 | 0   | 182  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:52.962                                | B733     | 335 | 4605 | 4605 | 38  | 2300 | 3731 | 328  | 43.24 | -23.25 | 36.69 | 327  | 43.43 | 160 | -58 | 110 | 170           |
| 13:47:57.070                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2300 | 3546 | 312  | 21.64 | -16.31 | 14.44 | 311  | 21.78 | 163 | -43 | 104 | 168           |
| 1Q                                          | L17 PA34 | 0   | 183  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:47:57.552                                | B733     | 335 | 4605 | 4605 | 38  | 2300 | 3732 | 328  | 43.08 | -23.00 | 36.62 | 327  | 43.25 | 154 | -61 | 111 | 165           |
| 13:48:01.657                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2200 | 3548 | 312  | 21.45 | -16.12 | 14.38 | 311  | 21.60 | 159 | -48 | 106 | 166           |
| 1Q                                          | L17 PA34 | 0   | 184  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:48:02.243                                | B733     | 335 | 4605 | 4605 | 38  | 2200 | 3734 | 328  | 42.94 | -22.81 | 36.56 | 328  | 43.09 | 151 | -59 | 111 | 162           |
| 13:48:06.247                                | N4171Z   | 340 | 4605 | 4605 | 38  | 2200 | 3552 | 312  | 21.27 | -15.94 | 14.31 | 312  | 21.42 | 161 | -40 | 104 | 165           |
| 1Q                                          | L17 PA34 | 0   | 185  |      |     |      |      |      |       |        |       |      |       |     |     |     | ARR           |
| 13:48:06.731                                | B733     | 335 | 4605 | 4605 | 38  | 2200 | 3736 | 328  | 42.81 | -22.56 | 36.56 | 328  | 42.96 | 153 | -49 | 107 | 160           |

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|              |                 |                  |      |          |       |        |       |     |       |     |     |     |     |     |
|--------------|-----------------|------------------|------|----------|-------|--------|-------|-----|-------|-----|-----|-----|-----|-----|
| 13:48:10.842 | B733 1 185      | 340 4605 4605 38 | 2200 | 3555 312 | 21.09 | -15.75 | 14.25 | 312 | 21.24 | 158 | -42 | 104 | 163 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 186            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:11.419 | B733 1 186      | 335 4605 4605 38 | 2200 | 3738 329 | 42.68 | -22.38 | 36.50 | 328 | 42.81 | 153 | -41 | 105 | 158 |     |
| 13:48:15.531 | B733 1 186      | 340 4605 4605 38 | 2100 | 3557 313 | 20.91 | -15.56 | 14.19 | 312 | 21.06 | 156 | -43 | 105 | 161 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 187            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:16.010 | B733 1 187      | 335 4605 4605 38 | 2100 | 3740 329 | 42.53 | -22.25 | 36.44 | 328 | 42.69 | 149 | -47 | 107 | 156 |     |
| 13:48:20.119 | B733 1 188      | 340 4605 4605 38 | 2100 | 3560 313 | 20.74 | -15.38 | 14.19 | 312 | 20.92 | 155 | -41 | 104 | 160 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 188            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:20.600 | B733 1 188      | 335 4605 4605 38 | 2100 | 3742 329 | 42.40 | -22.00 | 36.38 | 328 | 42.51 | 149 | -41 | 105 | 154 |     |
| 13:48:24.708 | B733 1 189      | 340 4605 4605 38 | 2100 | 3563 313 | 20.55 | -15.12 | 14.12 | 313 | 20.69 | 155 | -43 | 105 | 160 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 189            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:25.193 | B733 1 189      | 335 4605 4605 38 | 2000 | 3745 329 | 42.28 | -21.75 | 36.38 | 329 | 42.38 | 152 | -33 | 102 | 155 |     |
| 13:48:29.300 | B733 1 190      | 340 4605 4605 38 | 2000 | 3567 314 | 20.38 | -14.94 | 14.06 | 313 | 20.51 | 157 | -36 | 103 | 161 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 190            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:29.875 | B733 1 190      | 335 4605 4605 38 | 2000 | 3747 329 | 42.14 | -21.62 | 36.31 | 329 | 42.26 | 153 | -32 | 101 | 156 |     |
| 13:48:33.988 | B733 1 191      | 340 4605 4605 38 | 2000 | 3570 314 | 20.19 | -14.75 | 14.00 | 313 | 20.34 | 155 | -43 | 105 | 160 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 191            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:34.465 | B733 1 191      | 335 4605 4605 38 | 2000 | 3751 330 | 42.03 | -21.31 | 36.31 | 329 | 42.10 | 158 | -20 | 97  | 159 |     |
| 13:48:38.579 | B733 1 192      | 340 4605 4605 38 | 2000 | 3574 314 | 20.02 | -14.56 | 13.94 | 313 | 20.16 | 156 | -39 | 104 | 160 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 192            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:39.055 | B733 1 192      | 335 4605 4605 38 | 2000 | 3753 330 | 41.86 | -21.19 | 36.19 | 329 | 41.93 | 157 | -31 | 101 | 160 |     |
| 13:48:43.164 | B733 1 193      | 340 4605 4605 38 | 2000 | 3576 314 | 19.83 | -14.38 | 13.88 | 314 | 19.98 | 153 | -46 | 106 | 159 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 193            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:43.650 | B733 1 193      | 335 4605 4605 38 | 2000 | 3755 330 | 41.69 | -21.00 | 36.12 | 329 | 41.79 | 154 | -40 | 104 | 159 |     |
| 13:48:47.758 | B733 1 194      | 340 4605 4605 38 | 2000 | 3577 314 | 19.63 | -14.19 | 13.75 | 314 | 19.75 | 146 | -62 | 113 | 158 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 194            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:48.333 | B733 1 194      | 335 4605 4605 38 | 2000 | 3756 330 | 41.50 | -20.81 | 36.00 | 330 | 41.58 | 148 | -56 | 110 | 158 |     |
| 13:48:52.348 | B733 1 195      | 340 4605 4605 38 | 2000 | 3577 314 | 19.45 | -14.06 | 13.69 | 314 | 19.62 | 137 | -74 | 118 | 155 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 195            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:52.924 | B733 1 195      | 335 4605 4605 38 | 2000 | 3756 330 | 41.29 | -20.75 | 35.88 | 330 | 41.44 | 135 | -80 | 120 | 156 |     |
| 13:48:57.036 | B733 1 196      | 340 4605 4605 38 | 2100 | 3577 314 | 19.26 | -13.94 | 13.56 | 314 | 19.45 | 125 | -87 | 124 | 152 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 196            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:48:57.517 | B733 1 196      | 335 4605 4605 38 | 2100 | 3757 330 | 41.11 | -20.56 | 35.81 | 330 | 41.29 | 128 | -84 | 123 | 153 |     |
| 13:49:01.626 | B733 1 197      | 340 4605 4605 38 | 2000 | 3577 314 | 19.09 | -13.81 | 13.44 | 314 | 19.27 | 118 | -92 | 128 | 149 | ARR |
| 1Q           | N4171Z L17 PA34 | 0 197            |      |          |       |        |       |     |       |     |     |     |     |     |
| 13:49:02.201 | B733 1 197      | 335 4605 4605 38 | 2000 | 3757 330 | 40.93 | -20.50 | 35.62 | 330 | 41.10 | 116 | -94 | 129 | 149 |     |

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|                                              |        |     |      |     |      |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
|----------------------------------------------|--------|-----|------|-----|------|------|------|------|------|------|-------|--------|-------|------|-------|-----|------|-----|-----|-----|----|-----|
| 13:49:06.213                                 | B733   | 1   | 197  | 340 | 4605 | 4605 | 38   | 2000 | 3576 | 314  | 18.91 | -13.69 | 13.31 | 314  | 19.09 | 111 | -96  | 130 | 146 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 198  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:06.791                                 | B733   | 1   | 198  | 335 | 4605 | 4605 | 38   | 2000 | 3758 | 330  | 40.77 | -20.31 | 35.56 | 330  | 40.95 | 108 | -96  | 131 | 144 |     |    |     |
| 13:49:10.894                                 | B733   | 1   | 199  | 340 | 4605 | 4605 | 38   | 2100 | 3577 | 314  | 18.75 | -13.50 | 13.25 | 314  | 18.91 | 110 | -93  | 130 | 144 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 199  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:11.381                                 | B733   | 1   | 199  | 335 | 4605 | 4605 | 38   | 2100 | 3758 | 330  | 40.61 | -20.19 | 35.44 | 330  | 40.78 | 102 | -96  | 133 | 140 |     |    |     |
| 13:49:15.485                                 | B733   | 1   | 200  | 340 | 4605 | 4605 | 38   | 2100 | 3577 | 314  | 18.58 | -13.38 | 13.12 | 314  | 18.74 | 106 | -93  | 131 | 141 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 200  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:15.970                                 | B733   | 1   | 200  | 335 | 4605 | 4605 | 38   | 2100 | 3760 | 330  | 40.46 | -20.00 | 35.38 | 330  | 40.64 | 107 | -88  | 129 | 138 |     |    |     |
| 13:49:20.178                                 | B733   | 1   | 201  | 340 | 4605 | 4605 | 38   | 2000 | 3578 | 314  | 18.41 | -13.25 | 13.00 | 314  | 18.56 | 107 | -89  | 129 | 139 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 201  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:20.564                                 | B733   | 1   | 201  | 335 | 4605 | 4605 | 38   | 2000 | 3762 | 331  | 40.32 | -19.81 | 35.25 | 330  | 40.43 | 115 | -78  | 124 | 138 |     |    |     |
| 13:49:24.769                                 | B733   | 1   | 202  | 340 | 4605 | 4605 | 38   | 2000 | 3578 | 314  | 18.24 | -13.12 | 12.88 | 314  | 18.38 | 105 | -90  | 130 | 138 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 202  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| UTRACKING DATA (TD), RAPTOR Program 11/ 6/05 | ACID   | TRK | ABC  | RBC | FRM  | RALT |      |      | PACP | PDEG | PRAN  | X      | Y     | DDEG | DRAN  | XV  | YV   | HDG | SPD | MI  | DI | ADS |
| TIME                                         | ETG    | RO  | S    | SP  | AT   | SYS  | SCAN |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:25.250                                 | B733   | 1   | 202  | 335 | 4605 | 4605 | 38   | 2000 | 3763 | 331  | 40.16 | -19.75 | 35.12 | 330  | 40.29 | 110 | -80  | 126 | 136 |     |    |     |
| 13:49:29.357                                 | B733   | 1   | 203  | 340 | 4605 | 4605 | 38   | 2100 | 3579 | 315  | 18.07 | -13.00 | 12.75 | 314  | 18.21 | 106 | -87  | 129 | 137 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 203  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:29.839                                 | B733   | 1   | 203  | 335 | 4605 | 4605 | 38   | 2100 | 3764 | 331  | 40.00 | -19.62 | 35.00 | 330  | 40.12 | 106 | -82  | 127 | 134 |     |    |     |
| 13:49:33.944                                 | B733   | 1   | 204  | 340 | 4605 | 4605 | 38   | 2000 | 3578 | 314  | 17.90 | -12.88 | 12.62 | 314  | 18.03 | 99  | -93  | 133 | 135 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 204  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:34.431                                 | B733   | 1   | 204  | 335 | 4605 | 4605 | 38   | 2000 | 3764 | 331  | 39.84 | -19.50 | 34.94 | 330  | 40.01 | 103 | -83  | 128 | 132 |     |    |     |
| 13:49:38.532                                 | B733   | 1   | 205  | 340 | 4605 | 4605 | 38   | 2000 | 3577 | 314  | 17.75 | -12.81 | 12.50 | 314  | 17.90 | 88  | -101 | 139 | 133 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 205  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:39.020                                 | B733   | 1   | 205  | 335 | 4605 | 4605 | 38   | 2000 | 3765 | 331  | 39.68 | -19.38 | 34.75 | 330  | 39.79 | 95  | -90  | 133 | 130 |     |    |     |
| 13:49:43.126                                 | B733   | 1   | 206  | 340 | 4605 | 4605 | 38   | 2100 | 3573 | 314  | 17.61 | -12.75 | 12.38 | 314  | 17.77 | 66  | -114 | 150 | 131 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 206  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:43.705                                 | B733   | 1   | 206  | 335 | 4605 | 4605 | 38   | 2100 | 3764 | 331  | 39.51 | -19.38 | 34.62 | 330  | 39.68 | 78  | -102 | 142 | 128 |     |    |     |
| 13:49:47.813                                 | B733   | 1   | 207  | 340 | 4605 | 4605 | 38   | 2100 | 3568 | 314  | 17.49 | -12.69 | 12.19 | 313  | 17.59 | 46  | -122 | 159 | 130 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 207  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:48.294                                 | B733   | 1   | 207  | 335 | 4605 | 4605 | 38   | 2100 | 3762 | 331  | 39.36 | -19.38 | 34.44 | 330  | 39.51 | 57  | -111 | 152 | 124 |     |    |     |
| 13:49:52.399                                 | B733   | 1   | 208  | 340 | 4605 | 4605 | 38   | 2100 | 3564 | 313  | 17.38 | -12.69 | 12.06 | 313  | 17.50 | 32  | -124 | 165 | 128 | ARR |    |     |
| 1Q                                           | N4171Z | L17 | PA34 | 0   | 208  |      |      |      |      |      |       |        |       |      |       |     |      |     |     |     |    |     |
| 13:49:52.882                                 | B733   | 1   | 208  | 335 | 4605 | 4605 | 38   | 2100 | 3761 | 331  | 39.23 | -19.31 | 34.31 | 330  | 39.37 | 46  | -112 | 157 | 121 |     |    |     |

13:49:56.996 N4171Z 340 4605 4605 38 2000 3560 313 17.28 -12.62 11.94 313 17.38 24 -122 168 124  
 1Q L17 PA34 0 209  
 13:49:57.477 B733 335 4605 4605 38 2000 3760 330 39.10 -19.25 34.19 330 39.23 34 -114 163 118  
 13:50:01.676 N4171Z 340 4605 4605 38 2000 3557 313 17.16 -12.62 11.81 313 17.29 22 -120 169 122  
 1Q L17 PA34 0 210  
 13:50:02.162 B733 335 4605 4605 38 2000 3759 330 38.97 -19.25 34.00 330 39.07 24 -115 168 117  
 13:50:06.267 N4171Z 340 4605 4605 38 2100 3553 312 17.05 -12.62 11.62 312 17.16 19 -119 171 120  
 1Q L17 PA34 0 211  
 13:50:06.750 B733 335 4605 4605 38 2100 3757 330 38.84 -19.25 33.88 330 38.96 17 -115 171 116  
 13:50:10.857 N4171Z 340 4605 4605 38 2000 3550 312 16.95 -12.56 11.50 312 17.03 19 -117 170 118  
 1Q L17 PA34 0 212  
 13:50:11.340 B733 335 4605 4605 38 2000 3756 330 38.71 -19.25 33.69 330 38.80 5 -118 177 118  
 13:50:15.451 N4171Z 340 4605 4605 38 2100 3547 312 16.84 -12.56 11.38 312 16.95 20 -114 170 115  
 1Q L17 PA34 0 213  
 13:50:15.934 B733 335 4605 4605 38 2100 3755 330 38.58 -19.19 33.56 330 38.66 8 -116 176 116  
 13:50:20.134 N4171Z 340 4605 4605 38 2100 3543 311 16.73 -12.56 11.19 311 16.82 17 -113 171 114  
 1Q L17 PA34 0 214  
 13:50:20.618 B733 335 4605 4605 38 2100 3754 330 38.45 -19.19 33.44 330 38.55 10 -114 175 114  
 13:50:24.729 N4171Z 340 4605 4605 38 2100 3539 311 16.63 -12.50 11.06 311 16.69 13 -113 173 113  
 1Q L17 PA34 0 215  
 13:50:25.207 B733 335 4605 4605 38 2100 3753 330 38.32 -19.19 33.31 330 38.44 11 -113 174 113  
 13:50:29.321 N4171Z 340 4605 4605 38 2100 3536 311 16.52 -12.50 10.94 311 16.61 16 -111 171 112  
 1Q L17 PA34 0 216  
 13:50:29.801 B733 335 4605 4605 38 2100 3751 330 38.20 -19.25 33.12 329 38.31 2 -113 179 113  
 13:50:33.912 N4171Z 340 4605 4605 38 2100 3533 311 16.41 -12.44 10.81 311 16.48 21 -109 169 111  
 1Q L17 PA34 0 217  
 13:50:34.393 B733 335 4605 4605 38 2100 3751 330 38.07 -19.19 33.00 329 38.17 9 -111 175 111  
 13:50:38.499 N4171Z 340 4605 4605 38 2100 3529 310 16.30 -12.44 10.69 310 16.40 19 -109 170 110  
 1Q L17 PA34 0 218  
 13:50:38.979 B733 335 4605 4605 38 2100 3751 330 37.92 -19.06 32.94 330 38.05 31 -106 163 110  
 13:50:43.189 N4171Z 340 4605 4605 38 2100 3527 310 16.19 -12.38 10.56 310 16.27 27 -106 165 109  
 1Q L17 PA34 0 219  
 13:50:43.666 B733 335 4605 4605 38 2100 3751 330 37.78 -19.00 32.75 329 37.86 36 -102 160 108  
 13:50:47.771 N4171Z 340 4605 4605 38 2000 3524 310 16.08 -12.38 10.38 310 16.15 25 -105 166 107  
 1Q L17 PA34 0 220  
 13:50:48.256 B733 335 4605 4605 38 2000 3751 330 37.66 -19.00 32.62 329 37.75 34 -101 161 106  
 1Q L17 PA34 0 220

13:50:52.461 N4171Z 340 4605 4605 38 2000 3520 309 15.98 -12.38 10.25 309 16.07 20 -106 169 107  
 1Q L17 PA34 0 221  
 13:50:52.851 B733 335 4605 4605 38 2000 3750 330 37.52 -18.94 32.50 329 37.61 36 -99 160 105  
 13:50:56.950 N4171Z 340 4605 4605 38 2000 3517 309 15.87 -12.31 10.12 309 15.94 23 -105 167 107  
 1Q L17 PA34 0 222  
 13:50:57.440 B733 335 4605 4605 38 2000 3750 330 37.41 -18.94 32.38 329 37.50 32 -98 162 103  
 13:51:01.640 N4171Z 340 4605 4605 38 2000 3513 309 15.77 -12.31 10.00 309 15.86 21 -106 168 108  
 1Q L17 PA34 0 223  
 13:51:02.032 B733 335 4605 4605 38 2000 3749 330 37.28 -18.94 32.25 329 37.40 26 -99 165 102  
 13:51:06.230 N4171Z 340 4605 4605 38 2000 3509 308 15.67 -12.25 9.88 308 15.73 21 -104 168 106  
 1Q L17 PA34 0 224  
 13:51:06.716 B733 335 4605 4605 38 2000 3748 329 37.16 -18.88 32.12 329 37.26 28 -98 164 101  
 13:51:10.816 N4171Z 340 4605 4605 38 2000 3507 308 15.56 -12.25 9.75 308 15.66 26 -102 165 105  
 1Q L17 PA34 0 225  
 13:51:11.306 B733 335 4605 4605 38 2000 3748 329 37.04 -18.81 32.00 329 37.12 25 -98 165 101  
 13:51:15.506 N4171Z 340 4605 4605 38 2100 3503 308 15.46 -12.19 9.62 308 15.53 21 -102 168 104  
 1Q L17 PA34 0 226  
 13:51:15.990 B733 335 4605 4605 38 2100 3746 329 36.92 -18.88 31.81 329 36.99 14 -101 172 101  
 13:51:20.092 N4171Z 340 4605 4605 38 2100 3499 308 15.37 -12.19 9.44 307 15.41 19 -103 169 104  
 1Q L17 PA34 0 227  
 13:51:20.579 B733 335 4605 4605 38 2100 3744 329 36.80 -18.88 31.69 329 36.88 7 -103 176 103  
 13:51:24.682 N4171Z 340 4605 4605 38 2100 3495 307 15.27 -12.12 9.38 307 15.32 21 -101 168 103  
 1Q L17 PA34 0 228  
 13:51:25.175 B733 335 4605 4605 38 2100 3743 329 36.68 -18.81 31.56 329 36.74 5 -103 177 103  
 13:51:29.274 N4171Z 340 4605 4605 38 2100 3492 307 15.16 -12.12 9.19 307 15.21 22 -101 167 103  
 1Q L17 PA34 0 229  
 TRACKING DATA (TD), RAPTOR Program 11/ 6/05 PAGE 9  
 TIME ACID TRK ABC RBC FRM RALT PACP PDEG PRAN X Y DDEG DRAN XV YV HDG SPD MI DI ADS  
 C ETG RO S SP AT SYS SCAN  
 13:51:29.763 B733 335 4605 4605 38 2100 3743 329 36.55 -18.75 31.44 329 36.60 14 -102 172 102  
 13:51:33.963 N4171Z 340 4605 4605 38 2100 3489 307 15.06 -12.06 9.12 307 15.12 24 -100 166 102  
 1Q L17 PA34 0 230  
 13:51:34.350 B733 335 4605 4605 38 2100 3742 329 36.42 -18.75 31.31 329 36.50 17 -101 170 102  
 13:51:38.549 N4171Z 340 4605 4605 38 2100 3485 306 14.97 -12.06 9.00 306 15.05 21 -100 168 102  
 1Q L17 PA34 0 231  
 13:51:39.036 B733 335 4605 4605 38 2100 3740 329 36.30 -18.81 31.12 328 36.37 1 -106 179 106  
 13:51:43.140 N4171Z 340 4605 4605 38 2000 3481 306 14.89 -12.06 8.81 306 14.94 17 -100 170 101



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|    |              |                    |                   |         |      |          |       |        |       |     |       |    |      |     |     |
|----|--------------|--------------------|-------------------|---------|------|----------|-------|--------|-------|-----|-------|----|------|-----|-----|
| 1Q | 13:52:38.902 | L17 PA34<br>B733   | 0 244<br>335 4605 | 4605 38 | 1600 | 3734 328 | 34.54 | -18.19 | 29.50 | 328 | 34.65 | 39 | -100 | 158 | 107 |
| 1Q | 13:52:43.006 | N4171Z<br>L17 PA34 | 1 244<br>340 4605 | 4605 38 | 1500 | 3427 301 | 13.49 | -11.56 | 7.12  | 301 | 13.58 | 10 | -115 | 175 | 115 |
| 1Q | 13:52:43.494 | B733               | 0 245<br>335 4605 | 4605 38 | 1500 | 3732 328 | 34.43 | -18.25 | 29.31 | 328 | 34.53 | 25 | -104 | 166 | 106 |
| 1Q | 13:52:47.594 | N4171Z<br>L17 PA34 | 1 245<br>340 4605 | 4605 38 | 1500 | 3421 301 | 13.42 | -11.50 | 7.00  | 301 | 13.46 | 5  | -114 | 177 | 114 |
| 1Q | 13:52:48.181 | B733               | 0 246<br>335 4605 | 4605 38 | 1500 | 3730 328 | 34.30 | -18.25 | 29.12 | 328 | 34.37 | 9  | -109 | 175 | 109 |
| 1Q | 13:52:52.187 | N4171Z<br>L17 PA34 | 1 246<br>340 4605 | 4605 38 | 1400 | 3414 300 | 13.36 | -11.56 | 6.81  | 300 | 13.42 | -1 | -115 | 180 | 115 |
| 1Q | 13:52:52.769 | B733               | 0 247<br>335 4605 | 4605 38 | 1400 | 3728 328 | 34.18 | -18.25 | 29.00 | 327 | 34.26 | 4  | -110 | 178 | 110 |
| 1Q | 13:52:56.777 | N4171Z<br>L17 PA34 | 1 247<br>340 4605 | 4605 38 | 1300 | 3407 299 | 13.28 | -11.50 | 6.62  | 300 | 13.27 | 0  | -117 | 180 | 117 |
| 1Q | 13:52:57.358 | B733               | 0 248<br>335 4605 | 4605 38 | 1300 | 3726 327 | 34.06 | -18.25 | 28.81 | 327 | 34.11 | -1 | -112 | 180 | 112 |
| 1Q | 13:53:01.363 | N4171Z<br>L17 PA34 | 1 248<br>340 4605 | 4605 38 | 1200 | 3402 299 | 13.15 | -11.50 | 6.50  | 299 | 13.21 | 16 | -117 | 172 | 118 |
| 1Q | 13:53:01.948 | B733               | 0 249<br>335 4605 | 4605 38 | CST  | 3724 327 | 33.94 | -18.25 | 28.69 | 327 | 34.00 | -1 | -112 | 180 | 112 |
| 1Q | 13:53:06.054 | N4171Z<br>L17 PA34 | 1 249<br>340 4605 | 4605 38 | 1200 | 3397 299 | 13.03 | -11.44 | 6.38  | 299 | 13.09 | 29 | -116 | 166 | 119 |
| 1Q | 13:53:06.635 | B733               | 0 250<br>335 4605 | 4605 38 | CST  | 3723 327 | 33.81 | -18.25 | 28.56 | 327 | 33.89 | -1 | -112 | 180 | 112 |
| 1Q | 13:53:10.640 | N4171Z<br>L17 PA34 | 1 250<br>340 4605 | 4605 38 | 1100 | 3390 298 | 12.91 | -11.38 | 6.12  | 298 | 12.92 | 27 | -120 | 167 | 123 |
| 1Q | 13:53:15.332 | N4171Z<br>L17 PA34 | 0 251<br>340 4605 | 4605 38 | 1000 | 3385 298 | 12.78 | -11.38 | 6.00  | 297 | 12.86 | 37 | -118 | 162 | 123 |
| 1Q | 13:53:19.920 | N4171Z<br>L17 PA34 | 0 252<br>340 4605 | 4605 38 | 900  | 3379 297 | 12.67 | -11.31 | 5.88  | 297 | 12.75 | 37 | -118 | 162 | 123 |
| 1Q | 13:53:24.511 | N4171Z<br>L17 PA34 | 0 253<br>340 4605 | 4605 38 | 800  | 3372 296 | 12.55 | -11.25 | 5.69  | 296 | 12.61 | 35 | -121 | 163 | 125 |
| 1Q | 13:53:29.095 | N4171Z<br>L17 PA34 | 0 254<br>340 4605 | 4605 38 | 800  | 3366 296 | 12.43 | -11.19 | 5.56  | 296 | 12.49 | 39 | -121 | 162 | 127 |
| 1Q | 13:53:33.788 | N4171Z<br>L17 PA34 | 0 255<br>340 4605 | 4605 38 | 700  | 3360 295 | 12.30 | -11.12 | 5.38  | 295 | 12.35 | 44 | -121 | 160 | 128 |
| 1Q | 13:53:38.376 | N4171Z<br>L17 PA34 | 0 256<br>340 4605 | 4605 38 | 600  | 3352 295 | 12.20 | -11.12 | 5.19  | 295 | 12.27 | 35 | -125 | 164 | 129 |
| 1Q | 13:53:43.064 | N4171Z<br>L17 PA34 | 0 257<br>340 4605 | 4605 38 | 500  | 3342 294 | 12.15 | -11.12 | 5.06  | 294 | 12.22 | 11 | -132 | 175 | 132 |
| 1Q | 13:53:47.651 | N4171Z<br>L17 PA34 | 0 258<br>340 4605 | 4605 38 | 500  | 3333 293 | 12.12 | -11.12 | 4.88  | 293 | 12.14 | -6 | -133 | 182 | 133 |
| 1Q | 13:53:52.280 | N4171Z<br>L17 PA34 | 0 259<br>340 4605 | 4605 38 | CST  | 3324 292 | 12.07 | -11.12 | 4.69  | 292 | 12.07 | -6 | -133 | 182 | 133 |
| 1Q | 13:53:56.734 | N4171Z             | 0 260<br>340 4605 | 4605 36 | 400  | 331      |       |        |       |     |       |    |      |     |     |

```

1Q      L17 PA34 0 261
TRACKING DATA (TD), RAPTOR Program 11/ 6/05
TIME      TRK ABC RBC FRM RALT
C  ETG RO S  SP  AT  SYS SCAN
13:54:01.324 N4171Z 340 4605 4605 37 500
1Q      L17 PA34 0 262
13:54:05.133 E45X 0 263
13:54:05.918 E145 0 263
13:54:09.724 E45X 0 264
13:54:10.602 E145 0 264
13:54:14.314 E45X 0 265
13:54:15.195 E145 0 265
13:54:19.786 E145 0 266
13:54:24.372 E145 0 267
13:54:29.060 E145 0 268
13:54:33.653 E145 0 269
13:54:38.241 E145 0 270
13:54:42.830 E145 0 271
13:54:47.515 E145 0 272
13:54:52.106 E145 0 273
13:54:56.695 E145 0 274
13:55:01.384 E145 0 275
13:55:05.973 E145 0 276
13:55:10.566 E145 0 277
13:55:15.154 E145 0 278

***** ODS file F:\DSC\CDR DATA\N4171Z\N4171Z.cdr closed. 450 messages found. *****
~0831689.txt

```