

| Cast # | Date       | Time (GMT) | Temperature (°C) |     | Bar. Press. (mb) | Seas (CODE) | Vis (CODE) | Winds       |             | Amt ** | Clouds Type (CODE) | Weather (CODE) |
|--------|------------|------------|------------------|-----|------------------|-------------|------------|-------------|-------------|--------|--------------------|----------------|
|        |            |            | Dry              | Wet |                  |             |            | Dirn (true) | Speed (kts) |        |                    |                |
| 032    | 5-Oct      | 0052       | 10.4             | 9.0 | 1017.9           | 2           | 8          | 073         | 15          | 8      | 7,8                | 5              |
| 033    | 5-Oct      | 0145       | 9.6              | 8.0 | 1017.2           | 2           | 7          | 075         | 10          | 8      | 7,8                | 5              |
| 034    | 5-Oct      | 0243       | 9.9              | 8.2 | 1017.0           | 2           | 7          | 075         | 13          | 8      | 7,8                | 5              |
| 035    | 5-Oct      | 0331       | 8.6              | 7.8 | 1016.2           | 2           | 8          | 060         | 16          | 8      | 7,8                | 5              |
| 036    | 5-Oct 0430 | 0400       | 8.0              | 7.4 | 1015.4           | 3           | 7          | 070         | 15          | 8      | 7,8                | 5              |
| 037    | 5-Oct      | 0520       | 8.4              | 7.6 | 1015.0           | 3           | 7          | 070         | 15          | 8      | 7,8                | 5              |
| 038    | 5-Oct      | 0640       | 8.0              | 7.6 | 1013.2           | 4           | 6          | 070         | 19          | 8      | 7,8                | 6              |
| 039    | 5-Oct      | 0740       | 8.0              | 7.6 | 1012.0           | 4           | 6          | 040         | 20          | 8      | 7,8                | 5              |
| 040    | 5-Oct      | 0835       | 8.0              | 7.6 | 1010.6           | 5           | 6          | 050         | 26          | 8      | 6,8                | 6              |
| 041    | 5-Oct      | 0945       | 7.9              | 7.7 | 1009.5           | 5           | 6          | 060         | 32          | 8      | 6,8                | 6              |
| 042    | 5-Oct      | 1050       | 7.8              | 7.7 | 1008.8           | 5           | 6          | 060         | 35          | 8      | 6,8                | 6              |
| 043    | 5-Oct      | 1200       | 8.2              | 8.2 | 1007.6           | 5           | 6          | 065         | 35          | 8      | 6,8                | 6              |
| 044    | 5-Oct      | 1251       | 8.6              | 8.6 | 1005.5           | 5           | 6          | 065         | 32          | 8      | 6                  | 6              |
| 045    | 5-Oct      | 1350       | 8.8              | 8.7 | 1005.5           | 6           | 6          | 065         | 30          | 8      | 6                  | 6/2            |
| 046    | 5-Oct      | 14         | 9.0              | 8.8 | 1004.8           | 6           | 6          | 065         | 30          | 8      | 6                  | 7              |
| 047    | 5-Oct      | 1600       | 8.6              | 8.6 | 1004.4           | 6           | 6          | 045         | 20          | 8      | 6                  | 5              |

\*\* IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS

(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

| CODE | SEA STATE (FT)                | VISIBILITY (NM) | CLOUD TYPE     | WEATHER               | CODE |
|------|-------------------------------|-----------------|----------------|-----------------------|------|
| 0    | 0.0 feet - Glassy             | < 00.02         | CIRRUS         | CLEAR                 | 0    |
| 1    | 0.0 - 0.3 feet - Rippled      | 00.02 - 00.10   | CIRROCUMULUS   | PARTLY CLOUDY         | 1    |
| 2    | 0.3 - 1.6 feet - Wavelet      | 00.10 - 00.25   | CIRROSTRATUS   | CONTINUOUS CLOUDS     | 2    |
| 3    | 1.6 - 4.1 feet - Slight       | 00.25 - 00.50   | ALTOCUMULUS    | BLOWING SNOW          | 3    |
| 4    | 4.1 - 8.2 feet - Moderate     | 00.50 - 01.00   | ALTOSTRATUS    | FOG, THICK DUST, HAZE | 4    |
| 5    | 8.2 - 13.1 feet - Rough       | 01.00 - 02.00   | NIMBOSTRATUS   | DRIZZLE               | 5    |
| 6    | 13.1 - 19.7 feet - Very Rough | 02.00 - 05.00   | STRATOCUMULUS  | RAIN                  | 6    |
| 7    | 19.7 - 29.5 feet - High       | 05.00 - 10.00   | STRATUS        | SNOW OR RAIN/SNOW MIX | 7    |
| 8    | 29.5 - 45.9 feet - Very High  | 10.00 - 25.00   | CUMULUS        | SHOWERS               | 8    |
| 9    | > 45.9 feet - Phenomenal      | > 25.00         | CUMULONIMBUS   | THUNDERSTORMS         | 9    |
| *    | NO OBSERVATION                | NO OBSERVATION  | NO OBSERVATION | NO OBSERVATION        | *    |

| Cast # | Date   | Time (GMT) | Temperature (°C) |      | Bar. Press. (mb) | Seas (CODE) | Vis (CODE) | Winds       |             | Amt ** | Clouds Type (CODE) | Weather (CODE) |
|--------|--------|------------|------------------|------|------------------|-------------|------------|-------------|-------------|--------|--------------------|----------------|
|        |        |            | Dry              | Wet  |                  |             |            | Dirn (true) | Speed (kts) |        |                    |                |
| 048    | 05-0ct | 1700       | 9.0              | 9.0  | 1003.8           | 6           | 5          | 070         | 18          | 8      | 6                  | 5              |
| 049    | 05-0ct | 1800       | 9.7              | 9.7  | 1003.7           | 6           | 5          | 060         | 15          | 8      | 6                  | 5              |
| 050    | 05-0ct | 1900       |                  |      |                  |             |            |             |             |        |                    |                |
| 051    | 05-0ct | 2024       | 10.2             | 10.2 | 1003.8           | 5           | 3          | 200         | 10          | 8      | 6                  | 4              |
| 052    | 05-0ct | 2130       | 9.9              | 9.9  | 1003.2           | 5           | 5          | 210         | 10          | FOG    | 7                  | 4              |
| 053    | 05-0ct | 2225       | 10.0             | 9.9  | 1003.1           | 5           | 3          | 190         | 12          | FOG    | 7                  | 4              |
| 054    | 05-0ct | 2303       | 10.2             | 10.2 | 1002.3           | 5           | 3          | 200         | 10          | FOG    | 7                  | 4              |
| 055    | 05-0ct | 2353       | 10.3             | 10.1 | 1002.4           | 5           | 6          | 190         | 09          | 8      | 7                  | 2              |
| 056    | 06-0ct | 0046       | 10.2             | 9.9  | 1002.0           | 5           | 6          | 180         | 09          | 8      | 7                  | 2              |
| 057    | 06-0ct | 0143       | 10.1             | 10.0 | 1001.2           | 5           | 6          | 160         | 06          | 8      | 7                  | 4              |
| 058    | 06-0ct | 0222       | 10.1             | 10.0 | 1001.0           | 5           | 5          | 175         | 14          | 8      | 7                  | 5              |
| 059    | 06-0ct | 0319       | 10.1             | 10.0 | 1000.0           | 5           | 5          | 175         | 09          | 8      | 7                  | 4,5            |
| 060    | 06-0ct | 0430       | 11.0             | 11.0 | 999.7            | 4           | 5          | 170         | 17          | 8      | 7                  | 4,5            |
| 061    | 06-0ct | 0515       | 11.0             | 11.0 | 999.3            | 4           | 5          | 180         | 19          | 8      | 7                  | 4,5            |
| 062    | 06-0ct | 0645       | 11.2             | 10.5 | 998.3            | 4           | 6          | 180         | 18          | 8      | 7                  | 2              |
| 063    | 06-0ct | 0800       | 10.5             | 9.8  | 997.3            | 4           | 4          | 190         | 22          | 7      | 7                  | SUCKY          |

\*\* IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS  
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

| CODE | SEA STATE (FT)                | VISIBILITY (NM) | CLOUD TYPE     | WEATHER               | CODE |
|------|-------------------------------|-----------------|----------------|-----------------------|------|
| 0    | 0.0 feet - Glassy             | < 00.02         | CIRRUS         | CLEAR                 | 0    |
| 1    | 0.0 - 0.3 feet - Rippled      | 00.02 - 00.10   | CIRROCUMULUS   | PARTLY CLOUDY         | 1    |
| 2    | 0.3 - 1.6 feet - Wavelet      | 00.10 - 00.25   | CIRROSTRATUS   | CONTINUOUS CLOUDS     | 2    |
| 3    | 1.6 - 4.1 feet - Slight       | 00.25 - 00.50   | ALTOCUMULUS    | BLOWING SNOW          | 3    |
| 4    | 4.1 - 8.2 feet - Moderate     | 00.50 - 01.00   | ALTOSTRATUS    | FOG, THICK DUST, HAZE | 4    |
| 5    | 8.2 - 13.1 feet - Rough       | 01.00 - 02.00   | NIMBOSTRATUS   | DRIZZLE               | 5    |
| 6    | 13.1 - 19.7 feet - Very Rough | 02.00 - 05.00   | STRATOCUMULUS  | RAIN                  | 6    |
| 7    | 19.7 - 29.5 feet - High       | 05.00 - 10.00   | STRATUS        | SNOW OR RAIN/SNOW MIX | 7    |
| 8    | 29.5 - 45.9 feet - Very High  | 10.00 - 25.00   | CUMULUS        | SHOWERS               | 8    |
| 9    | > 45.9 feet - Phenomenal      | > 25.00         | CUMULONIMBUS   | THUNDERSTORMS         | 9    |
| **   | NO OBSERVATION                | NO OBSERVATION  | NO OBSERVATION | NO OBSERVATION        | *    |

| Cast # | Date      | Time (GMT) | Temperature (°C) |      | Bar. Press. (mb) | Seas (CODE) | Vis (CODE) | Winds       |             | Amt ** | Clouds Type (CODE) | Weather (CODE) |
|--------|-----------|------------|------------------|------|------------------|-------------|------------|-------------|-------------|--------|--------------------|----------------|
|        |           |            | Dry              | Wet  |                  |             |            | Dirn (true) | Speed (kts) |        |                    |                |
| 064    | 06 OCT 02 | 0846       | 10.0             | 9.3  | 997.9            | 4           | 6          | 190         | 28          | *      | *                  | 1              |
| 065    | 06 OCT 02 | 0945       | 7.9              | 9.3  | 997.5            | 4           | 6          | 210         | 23          | *      | *                  | 1              |
| 066    | 06 OCT 02 | 1030       | 9.8              | 9.2  | 997.2            | 4           | 6          | 190         | 031         | *      | *                  | 1              |
| 067    | 06 OCT 02 | 1110       | 10.2             | 9.3  | 997.4            | 4           | 6          | 210         | 027         | *      | *                  | 1              |
| 068    | 06 OCT 02 | 1156       | 10.2             | 9.8  | 997.8            | 5           | 6          | 210         | 24          | DARK   | *                  | 1/2            |
| 069    | 06 OCT 02 | 1248       | 10.2             | 9.8  | 998.2            | 5           | 6          | 220         | 25          | DARK   | *                  | 1, 2           |
| 070    | 06 OCT 02 | 1330       | 10.1             | 9.6  | 998.9            | 5           | 6          | 225         | 23          | 6      | 4                  | 1              |
| 071    | 06 OCT 02 | 1415       | 10.2             | 9.9  | 999.1            | 5           | 6          | 230         | 25          | 8      | 4, 6               | 2              |
| 072    | 06 OCT 02 | 1507       | 11.0             | 10.0 | 1000.8           | 5           | 6          | 220         | 22          | 8      | 4, 6               | 2              |
| 073    | 06 OCT 02 | 1620       | 10.5             | 10.0 | 1002.4           | 5           | 7          | 230         | 14          | 8      | 4, 6               | 2              |
| 074    | 06 OCT 02 | 1720       | 11.5             | 10.8 | 1003.6           | 5           | 7          | 245         | 19          | 6      | 6                  | 1              |
| 075    | 06 OCT 02 | 1830       | 11.5             | 10.4 | 1005.1           | 5           | 7          | 245         | 17          | 7      | 6                  | 1              |
| 076    | 06 OCT 02 | 1930       | 12.0             | 11.2 | 1006.3           | 5           | 7          | 240         | 13          | 6      | 3, 6               | 1              |
| 077    | 06 OCT 02 | 2038       | 13.5             | 13.0 | 1007.3           | 6           | 7          | 260         | 14          | 5      | 3, 6               | 1              |
| 078    | 06 OCT 02 | 2112       | 12.5             | 11.2 | 1007.9           | 6           | 7          | 260         | 12          | 6      | 6                  | 1              |
| 079    | 06 OCT 02 | 2144       | 11.7             | 10.9 | 1008.0           | 5           | 7          | 250         | 14          | 6      | 6                  | 1              |

\*\* IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS  
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

| CODE | SEA STATE (FT)                | VISIBILITY (NM) | CLOUD TYPE     | WEATHER               | CODE |
|------|-------------------------------|-----------------|----------------|-----------------------|------|
| 0    | 0.0 feet - Glassy             | < 00.02         | CIRRUS         | CLEAR                 | 0    |
| 1    | 0.0 - 0.3 feet - Rippled      | 00.02 - 00.10   | CIRROCUMULUS   | PARTLY CLOUDY         | 1    |
| 2    | 0.3 - 1.6 feet - Wavelet      | 00.10 - 00.25   | CIRROSTRATUS   | CONTINUOUS CLOUDS     | 2    |
| 3    | 1.6 - 4.1 feet - Slight       | 00.25 - 00.50   | ALTOCUMULUS    | BLOWING SNOW          | 3    |
| 4    | 4.1 - 8.2 feet - Moderate     | 00.50 - 01.00   | ALTOSTRATUS    | FOG, THICK DUST, HAZE | 4    |
| 5    | 8.2 - 13.1 feet - Rough       | 01.00 - 02.00   | NIMBOSTRATUS   | DRIZZLE               | 5    |
| 6    | 13.1 - 19.7 feet - Very Rough | 02.00 - 05.00   | STRATOCUMULUS  | RAIN                  | 6    |
| 7    | 19.7 - 29.5 feet - High       | 05.00 - 10.00   | STRATUS        | SNOW OR RAIN/SNOW MIX | 7    |
| 8    | 29.5 - 45.9 feet - Very High  | 10.00 - 25.00   | CUMULUS        | SHOWERS               | 8    |
| 9    | > 45.9 feet - Phenomenal      | > 25.00         | CUMULONIMBUS   | THUNDERSTORMS         | 9    |
| *    | NO OBSERVATION                | NO OBSERVATION  | NO OBSERVATION | NO OBSERVATION        | *    |

| Cast # | Date       | Time (GMT) | Temperature (°C) |      | Bar. Press. (mb) | Seas (CODE) | Vis (CODE) | Winds       |             | Amt ** | Clouds Type (CODE) | Weather (CODE) |
|--------|------------|------------|------------------|------|------------------|-------------|------------|-------------|-------------|--------|--------------------|----------------|
|        |            |            | Dry              | Wet  |                  |             |            | Dirn (true) | Speed (kts) |        |                    |                |
| 080    | 06 OCT '02 | 2225       | 13.5             | 12.4 | 1008.7           | 5           | 7          | 210         | 13          | 5      | 6, 3               | 1              |
| 081    | 06 OCT '02 | 2255       | 13.5             | 12.4 | 1008.2           | 5           | 7          | 240         | 12          | 2      | 3                  | 1              |
| 082    | 07 OCT '02 | 0129       | 12.1             | 11.2 | 1010.2           | 5           | 7          | 215         | 15          | 2      | 0                  | 0              |
| 083    | 07 OCT '02 | 0247       | 10.3             | 9.8  | 1011.0           | 5           | 7          | 200         | 18          | 6      | 6                  | 5              |
| 085    | 07 OCT '02 | 0400       | 9.7              | 9.6  | 1010.3           | 5           | 7          | 210         | 16          | 7      | 6                  | 1              |
| 086    | 07 OCT '02 | 0505       | 10.0             | 9.6  | 1010.1           | 5           | 7          | 200         | 15          | 8      | 6                  | 2              |
| 087    | 07 OCT '02 | 0600       | 10.0             | 9.4  | 1009.6           | 5           | 7          | 200         | 20          | 5      | 6                  | 1              |
| 088    | 07 OCT '02 | 0645       | 10.0             | 9.6  | 1009.2           | 5           | 7          | 190         | 20          | 8      | 6                  | 2              |
| 089    | 07 OCT '02 | 0725       | 9.8              | 9.8  | 1008.9           | 5           | 6          | 190         | 16          | 8      | 6                  | 5              |
| 090    | 07 OCT '02 | 0816       | 9.9              | 9.8  | 1007.2           | 5           | 6          | 180         | 22          | 8      | 6                  | 5              |
| 091    | 07 OCT '02 | 0922       | 9.9              | 9.8  | 1005.8           | 5           | 6          | 170         | 24          | 8      | 6                  | 5              |
| 092    | 07 OCT '02 | 1018       | 10.1             | 9.8  | 1004.0           | 5           | 6          | 180         | 29          | 8      | 6                  | 5              |
| 093    | 07 OCT '02 | 1130       | 10.4             | 9.7  | 1003.8           | 5           | 7          | 180         | 30          | 4      | 6                  | 5              |
| 094    | 07 OCT '02 | 1436       | 10.0             | 9.0  | 1005.6           | 4           | 7          | 200         | 22          | 2      | 4                  | 1              |
| 095    | 07 OCT '02 | 1518       | 9.7              | 9.0  | 1006.5           | 4           | 7          | 200         | 18          | 2      | 3                  | 1              |
| 096    | 07 OCT '02 | 1630       | 10.0             | 9.3  | 1006.6           | 4           | 7          | 200         | 18          | 1      | —                  | 0              |

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084

\*\* IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS  
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

| CODE | SEA STATE (FT)                | VISIBILITY (NM) | CLOUD TYPE     | WEATHER               | CODE |
|------|-------------------------------|-----------------|----------------|-----------------------|------|
| 0    | 0.0 feet - Glassy             | < 00.02         | CIRRUS         | CLEAR                 | 0    |
| 1    | 0.0 - 0.3 feet - Rippled      | 00.02 - 00.10   | CIRROCUMULUS   | PARTLY CLOUDY         | 1    |
| 2    | 0.3 - 1.6 feet - Wavelet      | 00.10 - 00.25   | CIRROSTRATUS   | CONTINUOUS CLOUDS     | 2    |
| 3    | 1.6 - 4.1 feet - Slight       | 00.25 - 00.50   | ALTOCUMULUS    | BLOWING SNOW          | 3    |
| 4    | 4.1 - 8.2 feet - Moderate     | 00.50 - 01.00   | ALTOSTRATUS    | FOG, THICK DUST, HAZE | 4    |
| 5    | 8.2 - 13.1 feet - Rough       | 01.00 - 02.00   | NIMBOSTRATUS   | DRIZZLE               | 5    |
| 6    | 13.1 - 19.7 feet - Very Rough | 02.00 - 05.00   | STRATOCUMULUS  | RAIN                  | 6    |
| 7    | 19.7 - 29.5 feet - High       | 05.00 - 10.00   | STRATUS        | SNOW OR RAIN/SNOW MIX | 7    |
| 8    | 29.5 - 45.9 feet - Very High  | 10.00 - 25.00   | CUMULUS        | SHOWERS               | 8    |
| 9    | > 45.9 feet - Phenomenal      | > 25.00         | CUMULONIMBUS   | THUNDERSTORMS         | 9    |
| *    | NO OBSERVATION                | NO OBSERVATION  | NO OBSERVATION | NO OBSERVATION        | *    |

| Cast # | Date       | Time (GMT) | Temperature (°C) |      | Bar. Press. (mb) | Seas (CODE) | Vis (CODE) | Winds       |             | Amt ** | Clouds      |   | Weather (CODE) |
|--------|------------|------------|------------------|------|------------------|-------------|------------|-------------|-------------|--------|-------------|---|----------------|
|        |            |            | Dry              | Wet  |                  |             |            | Dirn (true) | Speed (kts) |        | Type (CODE) |   |                |
| 097    | 07 Oct '02 | 1900       | 10.5             | 9.8  | 1008.7           | 5           | 6          | 215         | 24          | 0      | -           | 0 |                |
| 098    | 07 Oct '02 | 1945       | 10.3             | 9.2  | 1009.1           | 5           | 7          | 245         | 22          | 0      | -           | 0 |                |
| 099    | 07 Oct '02 | 2053       | 10.8             | 10.0 | 1009.8           | 5           | 7          | 230         | 20          | 1      | 4           | 1 |                |
| 100    | 07 Oct '02 | 2151       | 10.6             | 9.9  | 1010.2           | 5           | 7          | 230         | 21          | 1      | 4           | 1 |                |
| 101    | 07 Oct '02 | 2252       | 10.9             | 9.8  | 1010.7           | 5           | 7          | 240         | 18          | 1      | 4           | 1 |                |
| 102    | 07 Oct '02 | 2343       | 11.2             | 10.0 | 1011.8           | 5           | 8          | 250         | 14          | 1      | 8           | 1 |                |
| 103    | 07 Oct '02 | 0039       | 13.5             | 10.5 | 1011.5           | 5           | 8          | 245         | 20          | 1      | 8           | 1 |                |
| 104    | 08 Oct '02 | 0139       | 12.2             | 10.5 | 1012.7           | 5           | 8          | 215         | 21          | 2      | 6,8         | 1 |                |
| 105    | 08 Oct '02 | 0232       | 11.0             | 9.0  | 1013.1           | 5           | 8          | 220         | 20          | 3      | 6,8         | 1 |                |
| 106    | 08 Oct '02 | 0327       | 10.2             | 8.7  | 1014.0           | 5           | 8          | 220         | 17          | 3      | 6,8         | 1 |                |
| 107    | 08 Oct '02 | 0405       | 10.3             | 8.6  | 1014.2           | 5           | 8          | 220         | 19          | 2      | 6           | 1 |                |
| 108    | 08 Oct '02 | 0455       | 10.5             | 8.6  | 1014.8           | 5           | 8          | 230         | 18          | 1      | 6           | 1 |                |
| 109    | 08 Oct '02 | 0535       | 10.6             | 8.6  | 1015.3           | 5           | 8          | 235         | 20          | 1      | 6           | 1 |                |
| 110    | 08 Oct '02 | 0605       | 10.5             | 8.4  | 1015.9           | 5           | 8          | 240         | 21          | 1      | 6           | 1 |                |
| 111    | 08 Oct '02 | 0830       | 10.1             | 8.1  | 1016.1           | 5           | 8          | 240         | 22          | 1      | 4           | 1 |                |
| 112    |            |            |                  |      |                  |             |            |             |             |        |             |   |                |

\*\* IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS  
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

| CODE | SEA STATE (FT)                | VISIBILITY (NM) | CLOUD TYPE     | WEATHER               | CODE |
|------|-------------------------------|-----------------|----------------|-----------------------|------|
| 0    | 0.0 feet - Glassy             | < 00.02         | CIRRUS         | CLEAR                 | 0    |
| 1    | 0.0 - 0.3 feet - Rippled      | 00.02 - 00.10   | CIRROCUMULUS   | PARTLY CLOUDY         | 1    |
| 2    | 0.3 - 1.6 feet - Wavelet      | 00.10 - 00.25   | CIRROSTRATUS   | CONTINUOUS CLOUDS     | 2    |
| 3    | 1.6 - 4.1 feet - Slight       | 00.25 - 00.50   | ALTOCUMULUS    | BLOWING SNOW          | 3    |
| 4    | 4.1 - 8.2 feet - Moderate     | 00.50 - 01.00   | ALTOSTRATUS    | FOG, THICK DUST, HAZE | 4    |
| 5    | 8.2 - 13.1 feet - Rough       | 01.00 - 02.00   | NIMBOSTRATUS   | DRIZZLE               | 5    |
| 6    | 13.1 - 19.7 feet - Very Rough | 02.00 - 05.00   | STRATOCUMULUS  | RAIN                  | 6    |
| 7    | 19.7 - 29.5 feet - High       | 05.00 - 10.00   | STRATUS        | SNOW OR RAIN/SNOW MIX | 7    |
| 8    | 29.5 - 45.9 feet - Very High  | 10.00 - 25.00   | CUMULUS        | SHOWERS               | 8    |
| 9    | > 45.9 feet - Phenomenal      | > 25.00         | CUMULONIMBUS   | THUNDERSTORMS         | 9    |
| *    | NO OBSERVATION                | NO OBSERVATION  | NO OBSERVATION | NO OBSERVATION        | *    |

| Cast # | Date      | Time (GMT) | Temperature (°C) |      | Bar. Press. (mb) | Seas (CODE) | Vis (CODE) | Winds       |             | Amt ** | Clouds Type (CODE) | Weather (CODE) |
|--------|-----------|------------|------------------|------|------------------|-------------|------------|-------------|-------------|--------|--------------------|----------------|
|        |           |            | Dry              | Wet  |                  |             |            | Dirn (true) | Speed (kts) |        |                    |                |
| 113    | 08 OCT 02 | 0910       | 9.3              | 7.8  | 1016.8           | 5           | 7          | 250         | 25          | 2      | 1                  | 1              |
| 114    | 08 OCT 02 | 1018       | 9.8              | 7.3  | 1016.4           | 5           | 7          | 270         | 16          | 2      | 1                  | 1              |
| 115    | 08 OCT 02 | 1043       | 9.7              | 7.3  | 1016.3           | 5           | 7          | 270         | 15          | *      | *                  | 1              |
| 116    | 08 OCT 02 | 1210       | 10.0             | 7.7  | 1016.5           | 5           | 7          | 260         | 22          | 2      | 8                  | 1              |
| 117    | 08 OCT 02 | 1300       | 9.5              | 7.0  | 1016.5           | 5           | 7          | 260         | 25          | 2      | 8                  | 1              |
| 118    | 08 OCT 02 | 1346       | 9.5              | 7.0  | 1016.2           | 5           | 7          | 250         | 28          | 2      | 8                  | 1              |
| 119    | 08 OCT 02 | 1440       | 9.5              | 7.5  | 1016.3           | 5           | 7          | 250         | 23          | 3      | 8/4                | 1              |
| 120    | 08 OCT 02 | 1530       | 9.8              | 7.2  | 1016.2           | 4           | 7          | 250         | 23          | 3      | 8/4                | 1              |
| 121    | 08 OCT 02 | 1820       | 10.7             | 8.5  | 1015.5           | 5           | 8          | 250         | 22          | 4      | 3/6                | 1              |
| 122    | 08 OCT 02 | 2038       | 9.6              | 6.9  | 1015.5           | 5           | 8          | 280         | 21          | 3      | 6                  | 1              |
| 123    | 08 OCT 02 | 2115       | 9.6              | 6.9  | 1015.8           | 5           | 8          | 260         | 17          | 3      | 6                  | 1              |
| 124    | 08 OCT 02 | 2200       | 12.5             | 10.3 | 1015.8           | 5           | 8          | 291         | 21          | 3      | 6                  | 1              |
| 125    | 08 OCT 02 | 2206       | 8.8              | 6.8  | 1016.1           | 5           | 7          | 280         | 30          | 3      | 6                  | 1              |
| 126    | 09 OCT 02 | 0016       | 9.6              | 6.8  | 1015.9           | 5           | 8          | 280         | 26          | 2      | 8                  | 1              |
| 127    | 09 OCT 02 | 0128       | 8.7              | 5.5  | 1015.9           | 5           | 8          | 295         | 28          | 1      | 8                  | 1              |
| 128    | 09 OCT 02 | 0235       | 8.9              | 6.1  | 1016.5           | 4           | 8          | 285         | 20          | 1      | 8                  | 1              |

\*\* IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS  
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

| CODE | SEA STATE (FT)                | VISIBILITY (NM) | CLOUD TYPE     | WEATHER               | CODE |
|------|-------------------------------|-----------------|----------------|-----------------------|------|
| 0    | 0.0 feet - Glassy             | < 00.02         | CIRRUS         | CLEAR                 | 0    |
| 1    | 0.0 - 0.3 feet - Rippled      | 00.02 - 00.10   | CIRROCUMULUS   | PARTLY CLOUDY         | 1    |
| 2    | 0.3 - 1.6 feet - Wavelet      | 00.10 - 00.25   | CIRROSTRATUS   | CONTINUOUS CLOUDS     | 2    |
| 3    | 1.6 - 4.1 feet - Slight       | 00.25 - 00.50   | ALTOCUMULUS    | BLOWING SNOW          | 3    |
| 4    | 4.1 - 8.2 feet - Moderate     | 00.50 - 01.00   | ALTOSTRATUS    | FOG, THICK DUST, HAZE | 4    |
| 5    | 8.2 - 13.1 feet - Rough       | 01.00 - 02.00   | NIMBOSTRATUS   | DRIZZLE               | 5    |
| 6    | 13.1 - 19.7 feet - Very Rough | 02.00 - 05.00   | STRATOCUMULUS  | RAIN                  | 6    |
| 7    | 19.7 - 29.5 feet - High       | 05.00 - 10.00   | STRATUS        | SNOW OR RAIN/SNOW MIX | 7    |
| 8    | 29.5 - 45.9 feet - Very High  | 10.00 - 25.00   | CUMULUS        | SHOWERS               | 8    |
| 9    | > 45.9 feet - Phenomenal      | > 25.00         | CUMULONIMBUS   | THUNDERSTORMS         | 9    |
| *    | NO OBSERVATION                | NO OBSERVATION  | NO OBSERVATION | NO OBSERVATION        | *    |

