

Ambient Equilibration

- Cabin temperature: 25C
- Sensor type: RS80
- Ambient pressure: 695mb
- Ambient temperature: 10C
- Ambient RH: 75%
- Temperature equilibration accuracy: 0.1C
- RH equilibration accuracy: 5.0%
- Temperature equilibration at time: 14.2s, RS80 T sensor time constants: 5.0
- RH equilibration at time: 25.5s, RS80 RH sensor time constants: 2.8
- Pressure: same equilibration time used as for temperature
- Wind equilibration: 10.0s

Description

- D20160825_105351.2 143215046 AL99, 20160825I1 WP-3D, N43RF
- Data type: AVAPS SOUNDING DATA, Channel 2
- Sonde model: RS904
- Thermo sensor: RS904
- Launch time specified by the LAU line will be used.
- LAU launch line time: 2016-08-25 10:53:51.50

Fast Fall Test

- Number of points with excessive fall rate: 0
- Percentage of points with excessive fall rate: 0
- Sounding diagnosed as a fast fall: No

File Processing

- Data type: AVAPS SOUNDING DATA, Channel 2

- Sonde model: RS904
- Thermo sensor: RS904
- Launch time specified by the LAU line will be used.
- LAU launch line time: 2016-08-25 10:53:51.50

Processing Steps

- QC processing completed (in less than 1.0s)
- Levels created (in less than 1.0s)
- WMO message coded (in less than 1.0s)
- Tabs updated (in less than 1.0s)

QC Data Recovery Statistics

- 1179 raw data records
- 14 (1.2%) raw data records had PTU checksum errors
- 40 (3.4%) raw data records had GPS checksum errors
- 3 (0.3%) raw data records had both PTU and GPS checksum errors
- pres : input file reported 587 (49.8%) values, QC retained 545 (92.8%), overall rate: 46.2%
- tdry : input file reported 587 (49.8%) values, QC retained 545 (92.8%), overall rate: 46.2%
- RH : input file reported 585 (49.6%) values, QC retained 521 (89.1%), overall rate: 44.2%
- winds: input file reported 1166 (98.9%) values, QC retained 1082 (92.8%), overall rate: 91.8%

QC Height Integration

- Upward integration starts @ 0.0m
- Downward integration starts @ 3224.6m

QC for Pressure

- Points which failed the limit check: 0
- Points which failed the buddy check: 0

- Points which failed the outlier check: 0
- Points which failed the Q/C filter check: 0
- Points which failed the monotonic check: 0

QC for Relative Humidity

- Points which failed the limit check: 0
- Points which failed the buddy check: 1
- Points which failed the outlier check: 0
- Points which failed the Q/C filter check: 0
- Points which failed the lower limit check: 0
- Points which failed the upper limit check: 0
- Points which failed the lower limit check: 0
- Points which failed the upper limit check: 0

QC for Temperature

- Points which failed the limit check: 0
- Points which failed the buddy check: 0
- Points which failed the outlier check: 0
- Points which failed the Q/C filter check: 0

QC for VV Pressure

- Points which failed the limit check: 0
- Points which failed the buddy check: 0
- Points which failed the outlier check: 0
- Points which failed the Q/C filter check: 0

QC for Winds

- Points which failed the wind speed limit check: 0

- Points which failed the wind direction limit check: 0
- Points which failed the number of satellites check: 0
- Points which failed the buddy check: 17
- Outlier check disabled
- Q/C filter check disabled
- Points which failed the vertical velocity check: 0

Surface Observation

- Splash time (time of the last usable frame): 294.25s
- Extrapolated surface time: 294.79s
- Fall distance from last frame: 5.3m
- Extrapolated surface pressure: 1010.2mb
- Extrapolated surface temperature: 26.2C
- Extrapolated surface rh: 81.4%

Surface Wind Determination

- Surface wind coded for an adjusted altitude of 10.0m
- PTU/wind offset is 0.00s (PTU observations lead wind observations by 0.00s)

TD Dry Bias Correction

- Correction was applied
- Points which were removed due to missing temperature or bad RH: 0