

Ambient Equilibration

- Cabin temperature: 25C
- Sensor type: RS80
- Ambient pressure: 841mb
- Ambient temperature: 19C
- Ambient RH: 95%
- Temperature equilibration accuracy: 0.1C
- RH equilibration accuracy: 5.0%
- Temperature equilibration at time: 10.9s, RS80 T sensor time constants: 4.1
- RH equilibration at time: 17.8s, RS80 RH sensor time constants: 2.0
- Pressure: same equilibration time used as for temperature
- Wind equilibration: 10.0s

Description

- D20160830_110117_P.1 144315122 TD #9, 20160830I1 WP-3D, N43RF
- Data type: AVAPS SOUNDING DATA, Channel 1
- Sonde model: RS904
- Thermo sensor: RS904
- Launch time specified by the LAU line will be used.
- LAU launch line time: 2016-08-30 11:01:16.99

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 1

- Sonde model: RS904
- Thermo sensor: RS904
- Launch time specified by the LAU line will be used.
- LAU launch line time: 2016-08-30 11:01:16.99

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

- 587 raw data records
- 1 (0.2%) raw data records had PTU checksum errors
- 6 (1.0%) raw data records had GPS checksum errors
- 0 (0.0%) raw data records had both PTU and GPS checksum errors
- pres : input file reported 293 (49.9%) values, QC retained 272 (92.8%), overall rate: 46.3%
- tdry : input file reported 293 (49.9%) values, QC retained 272 (92.8%), overall rate: 46.3%
- RH : input file reported 293 (49.9%) values, QC retained 258 (88.1%), overall rate: 44.0%
- winds: input file reported 582 (99.1%) values, QC retained 501 (86.1%), overall rate: 85.3%

QC Height Integration

- Upward integration starts @ 0.0m
- Downward integration starts @ 1587.1m

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

QC for Relative Humidity

- 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 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: 34
- Outlier check disabled
- Q/C filter check disabled
- Points which failed the vertical velocity check: 8

Surface Observation

- Splash time (time of the last usable frame): 146.26s
- Extrapolated surface time: 146.80s
- Fall distance from last frame: 5.4m
- Extrapolated surface pressure: 1007.3mb
- Extrapolated surface temperature: 28.5C
- Extrapolated surface rh: 79.9%

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