

Header legend for HIWC-RADAR FLL-2015 Version 5 Data Distribution

Parameter	Units	Description
TIMECH2	UTC	Time in UTC
PstatE	mb	Static Pressure, from NASA ESPO archive file
TATE	C	Total air temperature, from NASA ESPO archive file
SAT2	C	Static Air Temperature, recomputed from NASA ESPO archive TAT and other supporting parameters, and TASgood
Boeing TAT	C	Static Air Temperature, as recorded on M300 data system
Boeing SAT	C	Boeing probe Static Air Temperature, computed from Boeing TAT and other supporting parameters, and TASgood
TASgood	m/s	True airspeed, either from NASA ESPO archive file, or from Ratvasky recomputed TAS during pitot anomalies if different
Xmach	-	Mach number
LATE	deg	Latitude, from NASA ESPO archive file
LNGE	deg	Longitude, from NASA ESPO archive file
PALTFT	ft	Pressure altitude, computed from PstatE above
CDPcnc	no/cm <sup>3</sup>	Simple calculation of Cloud Droplet Probe total concentration from counts, sample area, and TASgood, no corrections
PIPCnc	no/m <sup>3</sup>	Simple calculation of Precipitation imaging probe total concentration from counts, total sample area, and TASgood, no corrections
IKPTWCS5s	g/m <sup>3</sup>	Final IKP2 TWC calculation, 5 second centered-average value at one-second resolution, and with surrogate TWC substituted for IKP value for 9 short periods in pitot anomalies when IKP2 valve position resulted in IKP2 oscillations.