

CAESAR, Flight #tf01, 02/09/2024, 15:52:39-23:02:13

For position, it is hard to beat our research GPS w/ Terrastar.
Centimeter
accuracy. All those variables start with 'GG'.

Where you see redundant variables and one ends in 'X', you want that, it
is the reference assignment. e.g.

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#  
# C130 Reference Sensor Assignments  
#  
ATX      ATH1      Ambient Temp  
EWX      EW_DPB    Water Vapor Pressure  
DPXC     DP_DPB    Dew Point  
PSX      PSFRD    Static Pressure  
PSXC     PSFC      Static Pressure, Corrected  
QCX      QCFR      Dynamic Pressure  
QCXC     QCFRC     Dynamic Pressure, Corrected  
TASX     TASFR     True Airspeed  
WIX      WIC       Vertical Windspeed, Corrected
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Master list. Most duplicates removed. e.g. example we are flying two
CDP's, _LWI & _LWO, I removed _LWI (left wing inboard).

A2DTEMP_GPDACQ_319	cnts	A2D Temperature
ACGAIN_VXL	count	VCSEL AC Gain
ACINS	m/s2	IRS Vertical Acceleration
ADIFR	hPa	Vertical Differential Pressure, Radome
ADIFRTTEMP	deg_C	Temperature of ADIFR Probe
AKRD	degree	Attack Angle, Radome Diff. Pressure
AKY	degree	Attack Angle, Radome Diff. Pressure
ALT	m	IRS Altitude
ALTHYB	feet	Hybrid Altitude - 261
ALT_A	m	Avionics GPS Altitude (MSL)
AQRATIO		Al's Fudge Factor
AREA_RPC	mm2	Fast 2DC Total Area of Shadowed Pixels
ARMRXT_HVPS	deg_C	HVPS Arm Temperature
ARMTXT_HVPS	deg_C	HVPS Arm Temperature
ASTAT	V	W-CCN status
ATF1	deg_C	Ambient Temperature, Unheated
ATH1	deg_C	Ambient Temperature, Deiced Left
ATH2	deg_C	Ambient Temperature, Deiced Left
ATTACK	degree	Attack Angle, Reference
ATX	deg_C	Ambient Temperature, Reference
AT_A	deg_C	ADC Ambient Air Temperature
AT_VXL	deg_K	VCSEL Ambient Temperature
AVGTRNS_LWO	microsecond	CDP Average Transit Time
BALNC_DPB	unk	Dew/Frost Point Balance
BALNC_DPT	unk	Dew/Frost Point Balance
BALT1_A	m	ADC Baro Altitude
BAROCOR1_A	hPa	ADC baro correction #1 mB

BDIFR	hPa	Horizontal Differential Pressure, Radome
BDIFRTEMP	deg_C	Temperature of BDIFR Probe
BLATA	m/s2	IRS Body Latitudal Acceleration
BLONGA	m/s2	IRS Body Longitudal Acceleration
BNORMA	m/s2	IRS Body Normal Acceleration
BPITCHR	deg/s	IRS Body Pitch Rate
BROLLR	deg/s	IRS Body Roll Rate
BSN_RPC	#	Fast 2DC Board Serial Number
BTMP_RPC	deg_C	Fast 2DC Board Temperature
BYAWR	deg/s	IRS Body Yaw Rate
BYPFLW_CVI	sIpm	CVI Bypass Flow
CANP_2DS	psi	2DS Internal Pressure
CANP_HVPS	psi	HVPS Internal Pressure
CAS_A	m/s	ADC Computed Air Speed
CAVP_DPB	hPa	Raw Dynamic Pressure, Fuselage
CAVP_DPT	hPa	Raw Dynamic Pressure, Fuselage
CAVP_WVIS01	torr	Cavity Pressure
CAVT_WVIS01	deg_C	Cavity Temperature
CDP5VMON_LWO	Vdc	CDP 5 Vdc Monitor
CDPCBTMP_LWO	deg_C	CDP Control Board Temperature
CDPLBTMP_LWO	deg_C	CDP Laser Block Temperature
CDPLSRC_LWO	mAmp	CDP Laser Current
CDPLSRP_LWO	V	CDP Laser Power Monitor
CDPQBDW_LWO	unk	CDP Qualifier DT Bandwidth
CDPQBLINE_LWO	Vdc	CDP Qualifier Baseline
CDPQTHRSH_LWO	unk	CDP Qualifier Dynamic Threshold
CDPSBDW_LWO	unk	CDP Sizer DT Bandwidth
CDPSBLINE_LWO	Vdc	CDP Sizer Baseline
CDPSTHRSH_LWO	unk	CDP Sizer Dynamic Threshold
CDPWBTMP_LWO	deg_C	CDP Wing Board Temperature
CNTEMP	deg_C	BCN Counter Inlet Temperature
CNTRCUR_VXL	count	VCSEL Center Current
CNTS	count	TSI CN Counter Output
CNTS_CFDC	counts/sec	CFDC Total Count
COA_ARI	ppbv	Aerodyne Mini 108 Ambient FSO Carbon Monoxide Fit Correction Factor
COCAL_ARI	ppbv	Corrected Carbon Monoxide Concentration
COCOR_ARI	V	Raw Carbon Monoxide, Baseline Corrected
CONC1DC100_RPC	#/L	2D-C Concentration 100u and larger, Center-in (all cells)
CONC1DC150_RPC	#/L	2D-C Concentration 150u and larger, Center-in (all cells)
CONC1DC_RPC	#/L	2D-C Concentration, 260X Emulation (all cells)
CONC2D	#/L	No title
CONCD_LWO	#/cm3	CDP Concentration (all cells)
CONCN	#/cm3	Condensation Nuclei (CN) Concentration
CONCN_CFDC	#/cm3	Condensation Nuclei (CN) Concentration
CONCP_RWO	#/cm3	PCAS Concentration (all cells)
CONCS_2DS	#/cm3	2DS Total Number Particles
CONCS_HVPS	#/cm3	HVPS Total Number Particles
CONCU100_WYO	#/cm3	UHSAS Ambient Concentration, .1 micron and bigger

CONCU500_WYO	#/cm3	UHSAS Ambient Concentration, .5 micron and bigger
CONCU_WYO	#/cm3	UHSAS Ambient Concentration (all cells)
CONCV_VXL	#/cm3	VCSEL Moisture Number Density
COZRO_ARI	V	Carbon Monoxide Baseline Zero Signal
CO_ARI	ppbv	Aerodyne Mini 108 Carbon Monoxide Mixing Ratio
CT2_CFDC	deg_C	CFDC Aerosol Location Temperature
DAST_WVIS01	deg_C	DAS Temperature
DATE_RPC	count	Fast 2DC Date / Time Stamp
DBAR1DC_RPC	um	2D-C Mean Particle Diameter, 260X Emulation
DBAR2D	um	No title
DBARD_LWO	um	CDP Mean Particle Diameter
DBARP_RWO	um	PCAS Mean Particle Diameter
DBARS_2DS	um	2DS Mean Particle Diameter
DBARS_HVPS	um	HVPS Mean Particle Diameter
DBARU_WYO	um	UHSAS Mean Particle Diameter
DBZ1DC_RPC	dBZ	2D-C Calculated Reflectivity, 260X Emulation
DBZ2D	Unk	No title
DBZD_LWO	dBZ	CDP Calculated Reflectivity
DCUT50_CVI	units	CVI D Cut 50 um
DELTAT_LWO	msec	CDP Time between last sample and this sample
DELTAT_RWO	msec	SPP-200 Time between last sample and this sample
DIOV01_RPC	Vdc	Fast 2DC Diode Voltage, Diode 1
DIOV32_RPC	Vdc	Fast 2DC Diode Voltage, Diode 32
DIOV64_RPC	Vdc	Fast 2DC Diode Voltage, Diode 64
DIOVH01_2DS	Vdc	2DS Diode Voltage, Horizontal Diode 1
DIOVH128_2DS	Vdc	2DS Diode Voltage, Horizontal Diode 128
DIOVH64_2DS	Vdc	2DS Diode Voltage, Horizontal Diode 64
DIOVV01_2DS	Vdc	2DS Diode Voltage, Vertical Diode 1
DIOVV01_HVPS	Vdc	HVPS Diode Voltage, Diode 1
DIOVV128_2DS	Vdc	2DS Diode Voltage, Vertical Diode 128
DIOVV128_HVPS	Vdc	HVPS Diode Voltage, Diode 128
DIOVV64_2DS	Vdc	2DS Diode Voltage, Vertical Diode 64
DIOVV64_HVPS	Vdc	HVPS Diode Voltage, Diode 64
DISP1DC_RPC	none	2D-C Dispersion, 260X Emulation (sigma/dbarx)
DISP2D	Unk	No title
DISPD_LWO	none	CDP Dispersion (sigma/dbarx)
DISPP_RWO	none	PCAS Dispersion (sigma/dbarx)
DISPU_WYO	none	UHSAS Dispersion (sigma/dbarx)
DOFOR_RPC	count	Fast 2DC DOF Reject Count
DPXC	deg_C	Dew/Frost Point Temperature, Reference
DP_DPB	deg_C	Dew/Frost Point Temperature
DP_DPT	deg_C	Dew/Frost Point Temperature
DP_VXL	deg_C	Dew/Frost Point Temperature
DRFTA	degree	IRS Drift Angle
DRYFLW_CVI	slpm	CVI Flow Dry
DSMTEMP_318	degC	DSM Temperature
DSPT_2DS	deg_C	2DS DSP Board Temperature

DSPT_HVPS	deg_C	HVPSP DSP Board Temperature
DT1DC_RPC	msec	Fast 2DC Probe Dead Time
DTEMP	V	W-CCN plate temperature diff
DVALUE	m	D-VALUE (GGALT - PALT)
EWX	hPa	Ambient Water Vapor Pressure, Reference
EW_DPB	hPa	Ambient Water Vapor Pressure
EW_DPT	hPa	Ambient Water Vapor Pressure
EW_VXL	hPa	Ambient Water Vapor Pressure (VCSEL)
FCN	vlpm	Raw BCN Counter Sample Flow Rate
FCNC	vlpm	Corrected BCN Counter Sample Flow Rate
FILTER_CFDC	bool	CFDC Filter (ON=1)
FO3C_ACD	ppbv	Fast Response Ozone Mixing Ratio, Corrected
FO3_ACD	ppbv	Fast Response Ozone Mixing Ratio
FVT_2DS	deg_C	2DS Forward Vessel Temperature
GEOPTH	m	Geopotential height [MSL]
GGALT	m	Reference GPS Altitude (MSL)
GGALTSD	m	Standard Deviation of Reference GPS Altitude (MSL)
GGDAGE	s	Time in seconds since last DGPS update
GGEOIDHT	m	Reference GPS Height of geoid (MSL) above WGS84 ellipsoid
GGHDOP	none	Reference GPS Horizontal dilution of position
GGLAT	degree_N	Reference GPS Latitude
GGLATSD	m	Standard Deviation of Reference GPS Latitude
GGLON	degree_E	Reference GPS Longitude
GGLONSD	m	Standard Deviation of Reference GPS Longitude
GGNSAT	number	Reference GPS number of satellites used in solution
GGNSATL1	number	Reference GPS number of satellites with L1/E1/B1 signals used in solution
GGNSATMULTI	number	Reference GPS number of satellites with multi-frequency signals used in solution
GGNSATTRK	number	Reference GPS number of satellites tracked
GGQUAL	none	Reference GPS Qual, 0=inval,1=GPS,2=DGPS,5=FRTK
GGREFID	none	DGPS station ID number
GGRepLag	s	GPS reporting lag: (data sys time tag of NMEA receipt)-(NMEA time)
GGSPD	m/s	Reference GPS Ground Speed
GGSTATUS	none	Reference GPS rcvr status: 1=OK(A), 0=warning(V)
GGTRK	degree_T	Reference GPS Track Angle
GGVEW	m/s	Reference GPS Ground Speed Vector, East Component
GGVNS	m/s	Reference GPS Ground Speed Vector, North Component
GGVSPD	m/s	Reference GPS Vertical Speed
GSPD	m/s	IRS Aircraft Ground Speed

GSPDHYP	knots	Hybrid Ground Speed - 175
GSPD_A	m/s	Avionics GPS Ground Speed
GSTAT_A	none	Avionics GPS Sensor Status
GTIME_A	s	Avionics GPS UTC Measure Time
GVEW_A	m/s	Avionics GPS Ground Speed Vector, East Component
GVNS_A	m/s	Avionics GPS Ground Speed Vector, North Component
H2OR_CVI	g/m^3	TDL Water Concentration
H2O_ARI	ppbv	Aerodyne Mini 108 Water Mixing Ratio
H2O_WVIS01	ppmv	H2O
HGM232	feet	Altitude above ground (radar altimeter)
HKR_2DS	counts	2DS Housekeeping Packets Received
HKR_HVPS	counts	HVPS Housekeeping Packets Received
HMASK_2DS	none	2DS Horizontal Mask
HPDMON_2DS	deg_C	2DS Horizontal PD Monitor
HTEMP1	deg_C	Holodec temperature, zone 1, Camera
HTEMP2	deg_C	Holodec temperature, zone 2, Laser Head
HTEMP3	deg_C	Holodec temperature, zone 3, Laser Arm
HTEMP4	deg_C	Holodec temperature, zone 4, Camera Arm
HTEMP5	deg_C	Holodec temperature, zone 5, Laser Controller
HYBFOM	feet	Hybrid Horizontal Figure of Merit- 264
HYVFOM	feet	Hybrid Vertical Figure of Merit - 135
ICOL_LWC	A	Nevzorov LWC collector current
ICOL_TWC	A	Nevzorov TWC collector current
INC_CFDC	counts/sec	CFDC IN Count
IRBC	W/m2	Corrected Infrared Irradiance, Bottom
IRBHT	deg_C	Pyrgeometer (IR) Housing Temperature, Bottom
IRBV	V	Pyrgeometer Raw Infrared Irradiance, Bottom
IREF_LWC	A	Nevzorov LWC reference current
IREF_TWC	A	Nevzorov TWC reference current
IRIG_Status_319	bits	IRIG status: bit 0=SYNC, 1=NOCODE, 2=NOPPS, 3=NOMAJT, 4=NOYEAR, 5=NOSYNC
IRIG_Status_AENT1	bits	ENET IRIG Detect status: 0=NODETECT, 8=DETECT
IRIG_Tdiff_319	sec	IRIG-UNIX clock diff
IRTC	W/m2	Corrected Infrared Irradiance, Top
IRTHT	deg_C	Pyrgeometer (IR) Housing Temperature, Top
IRTV	V	Pyrgeometer Raw Infrared Irradiance, Top
IWC1DC_RPC	g m-3	2D-C Ice Water Content Estimate
IWD	degree_T	IRS Wind Direction
IWS	m/s	IRS Wind Speed
LAT	degree_N	IRS Latitude
LATC	degree_N	GPS-Corrected Inertial Latitude
LATF_A	degree_N	Avionics GPS Latitude Fine
LATHYB	deg_N	Hybrid Lat - 254
LAT_A	degree_N	Avionics GPS Latitude
LIMIT_SPB	bits	Platform Attitude Limited (=0:Norm,!0:Limit)
LIMIT_SPT	bits	Platform Attitude Limited (=0:Norm,!0:Limit)

LON	degree_E	IRS Longitude
LONC	degree_E	GPS-Corrected Inertial Longitude
LONF_A	degree_E	Avionics GPS Longitude Fine
LONHYB	deg_E	Hybrid Lon - 255
LON_A	degree_E	Avionics GPS Longitude
LSRTMP_VXL	ohm	VCSEL Laser Temperature
LWC_CVI	g/m^3	CVI Liquid Water Content
MACHF	none	Aircraft Mach Number, Fuselage
MACHFR	none	Aircraft Mach Number, Fuselage Right
MACHR	none	Aircraft Mach Number, Radome
MACHX	none	Aircraft Mach Number, Reference
MACH_A	none	ADC Mach Number
MAXS_2DS	um	2DS Max Particle Diameter
MAXS_HVPS	um	HVPS Max Particle Diameter
MHDG	deg	IRS Aircraft Magnetic Heading Angle
MIRRTMP_DBP	deg_C	Raw Dew/Frost Point Temperature
MIRRTMP_DPT	deg_C	Raw Dew/Frost Point Temperature
MODE_VXL	none	VCSEL Mode
MR	gram/kg	Mixing Ratio, T-Electric
N20A_ARI	ppbv	Aerodyne Mini 108 Ambient FSO Nitrous Oxide Mixing Ratio
N20_ARI	ppbv	Aerodyne Mini 108 Nitrous Oxide Mixing Ratio
N7V_2DS	Vdc	2DS Negative seven volts DC
N7V_HVPS	Vdc	HVPS Negative seven volts DC
NACCEPT2D	Unk	No title
NETEMP_HVPS	deg_C	HVPS Nose Edge Temperature
NOCAL	bool	Do Not Calibrate
NOREC	bool	Do Not Record
NREJECT2D	Unk	No title
NSTEMP_HVPS	deg_C	HVPS Nose Surface Temperature
ONE	none	Constant value of 1.
OVFLW_LWO	count	CDP AtoD Converter Overflow/Overrange
P7V_2DS	Vdc	2DS Positive seven volts DC
P7V_HVPS	Vdc	HVPS Positive seven volts DC
PALT	m	NACA Pressure Altitude
PALTF	feet	NACA Pressure Altitude
PALT_A	m	ADC Pressure Altitude
PBIT_AENT1	bits	ENET Periodic BIT test: 0=good
PBRDSTAT_AENT1	bits	ENET Periodic BIT read status: 0=success
PBYP_CVI	hpa	CVI Bypass Pressure
PCAB	hPa	Interior Cabin Static Pressure
PCAB_WVIS01	torr	Ambient Pressure
PCN	hPa	BCN Counter Inlet Pressure
PDRY	W	Power Dry Calculated
PEBIT_AENT1	bits	ENET PE BIT Register
PECTRL_AENT1	bits	ENET ROOT PE Control-Status Register
PENC_SPB	cnts	Platform Pitch Encoder
PENC_SPT	cnts	Platform Pitch Encoder
PESTS_AENT1	bits	ENET ROOT PE Status Register
PFLWC_RWO	vol cm3/s	PCAS Corrected Flow
PFLWS_RWO	std cm3/s	SPP-200 Sheath Flow
PFLW_RWO	std cm3/s	SPP-200 Flow
PHGB_RWO	V	SPP-200 High-Gain Baseline

PITCH	degree	IRS Aircraft Pitch Angle
PITCHA_SPB	degree	Bottom Pyrgeometer Stabilized Platform Pitch Angle
PITCHA_SPT	degree	Top Pyrgeometer Stabilized Platform Pitch Angle
PITCH_SPB	deg	Platform Pitch Angle
PITCH_SPT	deg	Platform Pitch Angle
PKPOS_VXL	count	VCSEL Peak Position
PLFB_SPB	deg	Platform Pitch Loop FB
PLFB_SPT	deg	Platform Pitch Loop FB
PLGB_RWO	V	SPP-200 Low-Gain Baseline
PLWC	W	Raw PMS-King Liquid Water Content Output
PLWC1DC_RPC	g m-3	2D-C Water/Ice Content, 260X Emulation
PLWC2D	g m-3	No title
PLWCC	g m-3	Corrected PMS-King Liquid Water Content
PLWCD_LWO	g m-3	CDP Water/Ice Content
PMGB_RWO	V	SPP-200 Mid-Gain Baseline
PONB_CVI	hpa	CVI Pressure ONB
POVCR_SPB	cnts	Platform Pitch Motor Current Monitor
POVCR_SPT	cnts	Platform Pitch Motor Current Monitor
PPWM_SPB	cnts	Platform Pitch Motor PWM
PPWM_SPT	cnts	Platform Pitch Motor PWM
PREF_RWO	V	SPP-200 Laser Reference Voltage
PREGAIN_VXL	count	VCSEL Pre Gain
PSAMP_CVI	hpa	CVI Sample Pressure
PSFC	hPa	Corrected Static Pressure, Fuselage
PSFD	hPa	Raw Static Pressure, Fuselage
PSFDC	hPa	Corrected Static Pressure, Fuselage Digital
PSFRD	hPa	Raw Static Pressure, Fuselage
PSURF	hPa	Calculated Surface Pressure
PSX	hPa	Raw Static Pressure, Reference
PSXC	hPa	Corrected Static Pressure, Reference
PS_A	hPa	ADC Static Pressure
PS_VXL	hPa	VCSEL Ambient Pressure
PTDLR_CVI	mb	TDL Pressure
PTMP_RWO	deg_C	SPP-200 Detector Temperature
PT_2DS	deg_C	2DS Power Supply Temperature
PT_A	hPa	ADC Total Pressure
PT_HVPS	deg_C	HVPS Power Supply Temperature
PUSER_CVI	hpa	CVI User Pressure
PVOLP_RWO	um3/m3	PCASP Equivalent Volume
PVOLU_WYO	um3/m3	UHSAS Equivalent Volume
P_ARI	Torr	Aerodyne Mini 108 Pressure
P_CFDC	hPa	CFDC Pressure
QCF	hPa	Raw Dynamic Pressure, Fuselage
QCFC	hPa	Corrected Dynamic Pressure, Fuselage
QCFR	hPa	Raw Dynamic Pressure, Fuselage Right
QCFRC	hPa	Raw Dynamic Pressure, Fuselage Right, Corrected
QCFRTEMP	deg_C	Temperature of QCFR Probe
QCFTEMP	deg_C	Temperature of QCF Probe
QCR	hPa	Raw Dynamic Pressure, Radome
QCRC	hPa	Corrected Dynamic Pressure, Radome

QCRTEMP	deg_C	Temperature of QCR Probe
QCX	hPa	Raw Dynamic Pressure, Reference
QCXC	hPa	Corrected Dynamic Pressure, Reference
QC_A	hPa	ADC Impact Pressure
RALT	m	Geometric (Radar) Altitude (APN-232)
RAWCONC_VXL	#/cm3	VCSEL Moisture Number Density
REFF2D	Unk	No title
REFF2DC_RPC	um	1DC Effective Radius
REFFD_LWO	um	CDP Effective Diameter
REJDOF_LWO	count	CDP Rejected Particle Count (Outside Depth-of-Field)
RENC_SPB	cnts	Platform Roll Encoder
RENC_SPT	cnts	Platform Roll Encoder
RHODT	g m-3	Absolute Humidity, T-Electric
RHUM	%	Relative Humidity
RH_2DS	%	2DS Relative Humidity
RICE	V	Raw Icing-Rate Indicator
RLFB_SPB	deg	Platform Roll Loop FB
RLFB_SPT	deg	Platform Roll Loop FB
ROLL	degree	IRS Aircraft Roll Angle
ROLLA_SPB	degree	Bottom Pyrgeometer Stabilized Platform Roll Angle
ROLLA_SPT	degree	Top Pyrgeometer Stabilized Platform Roll Angle
ROLL_SPB	deg	Platform Roll Angle
ROLL_SPT	deg	Platform Roll Angle
ROVCR_SPB	cnts	Platform Roll Motor Current Monitor
ROVCR_SPT	cnts	Platform Roll Motor Current Monitor
RPS_RPC	count	Fast 2DC Records per Second
RPWM_SPB	cnts	Platform Roll Motor PWM
RPWM_SPT	cnts	Platform Roll Motor PWM
RSTB	deg_C	Radiometric Surface Temperature
RSTB1	deg_C	Radiometric Surface Temperature
RSTT	deg_C	Radiometric Sky/Cloud-Base Temperature
RTF1	deg_C	Recovery Air Temperature, ADS Rack
RTH1	deg_C	Recovery Air Temperature, Heated Left
RTH2	deg_C	Recovery Air Temperature, Heated Left
RTX	deg_C	Recovery Temperature, Reference
RT_A	deg_C	ADC Recovery Air Temperature
SAT_CFDC	%	CFDC Saturation Water
SELHYB	none	Hybrid Maintenance Word - 353
SETTMP_VXL	ohm	VCSEL Set Temperature
SFLOW_CFDC	L/min	CFDC Sheath Flow
SHDOR_RPC	count	Fast 2DC Shadow OR Count
SMPLSRINT_VXL	mV	VCSEL Sample Laser Intensity
SOLAZ	radian	Solar Azimuth Angle
SOLDE	radian	Solar Declination Angle
SOLEL	radian	Solar Elevation Angle
SOLZE	radian	Solar Zenith Angle
SSLIP	degree	Sideslip Angle, Reference
SSRD	degree	Sideslip Angle, Radome Diff. Pressure
STATUS_GPDACQ_319	counter	Status: 0=NOPPS, 1=PPSDET, 2=PPSLOCK, 3=PPSSET

STATUS_TDACQ_321	counter	Status: 0=NOPPS, 1=PPSDET, 2=PPSLOCK, 3=PPSSET
STATUS_VXL	none	VCSEL Status Code
Stratum_318		NTP stratum
TACT2H_2DS	count	2DS Total Particles Horizontal
TACT2V_2DS	count	2DS Total Particles Vertical
TACT2V_HVPS	count	HVPS Total Particles
TACTU_WYO	count	UHSAS Total Counts (all cells)
TASDRY	m/s	Aircraft True Airspeed, Dry Air
TASF	m/s	Aircraft True Airspeed, Fuselage
TASFLG	bool	True Airspeed Humidity Correction Flag
TASFR	m/s	Aircraft True Airspeed, Fuselage Right
TASR	m/s	Aircraft True Airspeed, Radome
TASX	m/s	Aircraft True Airspeed, Reference
TAS_A	m/s	ADC True Air Speed
TAS_RPC	m/s	Fast 2DC Diode TAS
TBACK_CVI	deg_C	CVI Temperature back
TCNTD_LWO	count	CDP Total Counts (all cells)
TCNTP_RWO	count	PCAS Total Counts (all cells)
TCNTU_WYO	count	UHSAS Total Counts (all cells)
TCPFAILS_AENT1	#	ENET Number of Failures
TCPRTRY_AENT1	#	ENET Number of Retries
TCPTRANS_AENT1	#	ENET Number of Transactions
TEC_DPB	unk	Dew/Frost Point TEC
TEC_DPT	unk	Dew/Frost Point TEC
TEXT_CVI	deg_C	CVI External Temperature
TFAN_CVI	deg_C	CVI Fan Temperature
TFLOW_CFDC	L/min	CFDC Total Flow
THDG	degree_T	IRS Aircraft True Heading Angle
THDGHYB	deg_T	Hybrid True Heading - 132
THETA	K	Potential Temperature
THETAE	K	Equivalent Potential Temperature
THETAP	K	Pseudo-adiabatic Equivalent Potential Temperature
THETAQ	K	Wet Equivalent Potential Temperature
THETAV	K	Virtual Potential Temperature
TKAT	degree_T	IRS Aircraft Track Angle
TKAT_A	degree_T	Avionics GPS Track Angle
TOPTMP	V	W-CCN top plate temperature
TRSTB	deg_C	RSTB Sensor Heater Unit Settings
TTDLR_CVI	deg_C	TDL Temperature
TVIR	deg_C	Virtual Temperature
T_ARI	K	Aerodyne Mini 108 Temperature
Time	seconds	since 2024-02-09 00:00:00 +0000 time of measurement
Timeoffset_318	usec	Clock offset, system-reference
UACC_WYO	sec	UHSAS Accumulation
UCURR_WYO	V	UHSAS Laser Current
UFLWC_WYO	vol cm3/s	UHSAS Sample Flow at Ambient Conditions
UFT_4	deg_C	Under Floor Temperature
UI	m/s	Wind Vector, East Component
UIC	m/s	GPS-Corrected Wind Vector, East Component
ULSRTEMP_WYO	V	UHSAS Laser Temperature
UPRESS_WYO	kPa	UHSAS Absolute Ambient Pressure

UPRGFLW_WYO	sccm	UHSAS Purge Flow
UREF_WYO	V	UHSAS Reference Intensity
USCAT_WYO	V	UHSAS Background Scatter
USHFLW_WYO	sccm	UHSAS Air Sheath Flow
USMPFLW_WYO	sccm	UHSAS Sample Flow
USRFLW_CVI	slpm	CVI User Flow
UTMP_WYO	K	UHSAS Temperature as Sample enters the Instrument
UTSEC_GPDACQ_319	seconds	Time; Seconds Since Midnight
UTSEC_TDACQ_321	seconds	Time; Seconds Since Midnight
UX	m/s	Wind Vector, Longitudinal Component
UXC	m/s	GPS-Corrected Wind Vector, Longitudinal Component
VCOL_LWC	V	Nevzorov LWC collector voltage
VCOL_TWC	V	Nevzorov TWC collector voltage
VDET	V	W-CCN detector
VELOCIM1	V	Engine 1 Velocimeter
VELOCIM2	V	Engine 2 Velocimeter
VELOCIM3	V	Engine 3 Velocimeter
VELOCIM4	V	Engine 4 Velocimeter
VELOCIMP1		Velocimeter Processed, Engine1
VELOCIMP2		Velocimeter Processed, Engine2
VELOCIMP3		Velocimeter Processed, Engine3
VELOCIMP4		Velocimeter Processed, Engine4
VEW	m/s	IRS Ground Speed Vector, East Component
VEWC	m/s	GPS-Corrected Inertial Ground Speed Vector, East Component
VEWHYB	knots	Hybrid Velocity EW - 267
VFLOW_CVI	units	CVI V Flow
VI	m/s	Wind Vector, North Component
VIC	m/s	GPS-Corrected Wind Vector, North Component
VISB	W/m2	Pyrgeometer Raw Visible Irradiance, Bottom
VISBHT	V	Pyrgeometer (Visible) Housing Temperature, Bottom
VIST	W/m2	Pyrgeometer Raw Visible Irradiance, Top
VISTHT	V	Pyrgeometer (Visible) Housing Temperature, Top
VLT_2DS	deg_C	2DS Vertical Laser Temperature
VLT_HVPS	deg_C	HVPS Laser Temperature
VMASK_2DS	none	2DS Vertical Mask
VMASK_HVPS	none	HVPS Mask
VMR_VXL	ppmv	Volume Mixing Ratio
VNS	m/s	IRS Ground Speed Vector, North Component
VNSC	m/s	GPS-Corrected Inertial Ground Speed Vector, North Component
VNSHYB	knots	Hybrid Velocity NS - 266
VPDMON_2DS	deg_C	2DS Vertical PD Monitor
VREF_LWC	V	Nevzorov LWC reference voltage
VREF_TWC	V	Nevzorov TWC reference voltage
VSPD	m/s	IRS Vertical Speed
VSPD_A	m/s	Avionics GPS Vertical Velocity
VY	m/s	Wind Vector, Lateral Component

VYC	m/s	GPS-Corrected Wind Vector, Lateral Component
WD	degree_T	Horizontal Wind Direction
WDC	degree_T	GPS-Corrected Horizontal Wind Direction
WI	m/s	Wind Vector, Vertical Gust Component
WIC	m/s	GPS-Corrected Wind Vector, Vertical Gust Component
WINRXT_HVPS	deg_C	HVPS Window Temperature
WINTXT_HVPS	deg_C	HVPS Window Temperature
WIX	m/s	Wind Vector, Vertical Gust Component, Reference
WIY	m/s	GPS-Corrected Wind Vector, Vertical Gust Component
WOW_A	bool	ADC Weight On Wheels
WS	m/s	Horizontal Wind Speed
WSC	m/s	GPS-Corrected Horizontal Wind Speed
XICN	vlpm	BCN Isokinetic Side Flow Rate
XICNC	vlpm	Corrected CN Isokinetic Side Flow Rate
ZERO	none	Constant value of 0.
d18O_WVIS01	permil	Stable Water Isotope Ratio For Oxygen
dd_WVIS01	permil	Stable Water Isotope Ratio For Hydrogen
dilution_CVI	units	CVI Dilution
enhancement_CVI	units	CVI Enhancement Factor