

APPENDIX 1 – P3 QC Checklist

Flight ID:	20171005H1
Flight Director(s):	Williams

Pressure Comparison		
	T/O 1336	Land 2009
Aircraft	1009.9 (2)	1007.2 (2)
Tower	1010.2	1007.9

UWZ.d mean: 0.05

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1	AccZfilter-GPS.1	AccZref	
	AccAXI.2	AccAYI.2	AccAZI.2	Acc-Zfilter-GPS.2		
	AccAXI-GPS.1	AccAYI-GPS.1	AccAZI-GPS.1			
	AccAXI-GPS.2	AccAYI-GPS.2	AccAZI-GPS.2			
<input checked="" type="checkbox"/> Altitude	AltGPS.1	AltI-GPS.1	AltPaADDU.1	AltRA.1	ALTref	AltRA1.c
	AltGPS.2	AltI-GPS.2	AltBCADDU.1	AltRA.2	ALTPA.d	AltRA2.c
	AltGPS.3				ALTGA.d	
	AltGPS.4					
<input checked="" type="checkbox"/> Ground Speed	GsXI-GPS.1	GsYI-GPS.1	GsZI-GPS.1		GSXref	
	GsXI-GPS.2	GsYI-GPS.2	GsZI-GPS.2		GSYref	
					GSZref	
<input checked="" type="checkbox"/> Lat/Lon	LatGPS.1	Lati-GPS.1	LonGPS.1	Loni-GPS.1	LATref	
	LatGPS.2	Lati-GPS.2	LonGPS.2	Loni-GPS.2	LONref	
	LatGPS.3		LonGPS.3			
	LatGPS.4		LatGPS.4			
<input checked="" type="checkbox"/> Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHAref	PQMref
	PDALPHA.2	PQBETA.1	PQM.2	PSM.2	PDBETAref	PQ.c
	PDBETA.1		PQM.3	PTM.1	PQALPHAref	PSMref
	PDBETA.2		PQM.4		PQBETAref	PS.c
<input checked="" type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input checked="" type="checkbox"/> Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRateI.1	PITCHref	
	PitchI.2	PitchRateI.2	RollI.2	RollRateI.2	ROLLref	
	PitchI.3	PitchRateI.3	RollI.3	RollRateI.3		
<input checked="" type="checkbox"/> Temp/Dewpt	TTM.1	TDM.1	TRadD.1		TD.c	TTMref
	TTM.2	TDM.2	TRadS.1		TDMref	TA.d
	TTM.3	TDM.3	TRadU.1			
<input checked="" type="checkbox"/> Miscellaneous (must check)					UWZ.d	WS.d
					DPJ_WSZ	WD.d
					HUM	

Mission Documents:

<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input checked="" type="checkbox"/>	Miscellaneous FD notes

NOTES: pdalpha.2 is not correctly reading. Pdalpha.1 is reference. INE2 pitch is 0.2 higher than INE1, INE1 is correct and used in calculations. Tdm.2 is invalid from

172917Z – 173236Z, but still used as reference due to cleaner readings than tdm.1
Tdm.3 is several degrees too warm.

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION						
FLT ID:	20171005H1	FLT #:		AC:	Price	Scientists:	Pressure		Dropsondes				
From:	KLAL	ETD:	1400Z	CP(s):	Mitchell		A/C Takeoff		Good	Bad	Sent		
To:	KLAL	ETA:	2100Z		Rees	Zhang, Jun HRD							
Block Time		Flight Time		Nav(s):		Wadler, Joshua	Wx Station Takeoff		BTs				
In:	2015	In:	2009		Sloan	Jaimes, Benjamin			Good	Bad	Sent		
Out:	1328	Out:	1336	FE(s):	Heystek		A/C Land						
					Sanchez								
Total:	6.8	Total:	6.6	FD(s):	Williams		Wx Station Land						
						Visitors:							
Sponsoring Org:	HRD			SEB:	Warnecke	Obs: Kevin Doremus	Storm Number ID:						
Program:	Ocean Heat Content					Obs: Brian Richards	(ie: AL072012)		AL162017				
Purpose:	TS Nate			SSA:	Mascaro		TCPOD/WSPOD Mission						
				AVAPS:	Patel		(ie: NOAA2 2418A SANDY)		NOAA2 WA16A NATE				
				OBSERVATIONS									
AS REQUIRED BY ORM		Y	N	REMARKS			Fix Number	Obs Number	Fix Time	SLP			
VOLCANIC ASH			X	20 BT'S 24 CP'S 5 OTD'S deep 83% 106									
SCIENCE MISSION WITHIN BDRY LAYER			x										
LACK OF PRECIPITATION			x										
RELATIVE HUMIDITY ≥ 80%		x											
LARGE AIR-SEA TEMP GRADIENT			X										
HIGH SURFACE WINDS		x											
LONG FETCH / DURATION OF SFC WND		x											
SEA SALT ACCRETION FORECAST			X										
SEA SALT ACCRETION OBSERVED													

Additional Remarks:

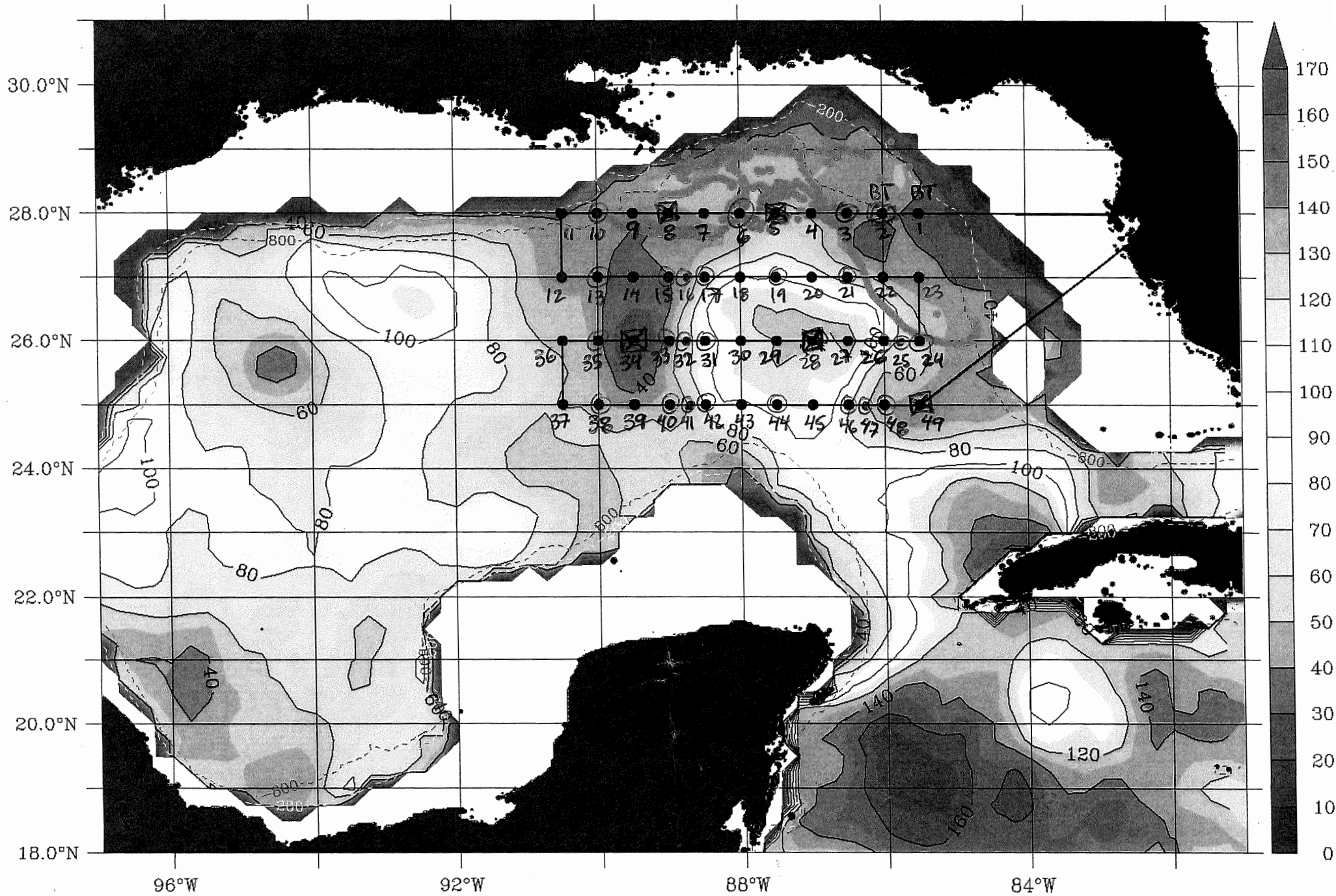
*Highlighted items must be completed before departure.

Cockpit Gmax:

Gmin:

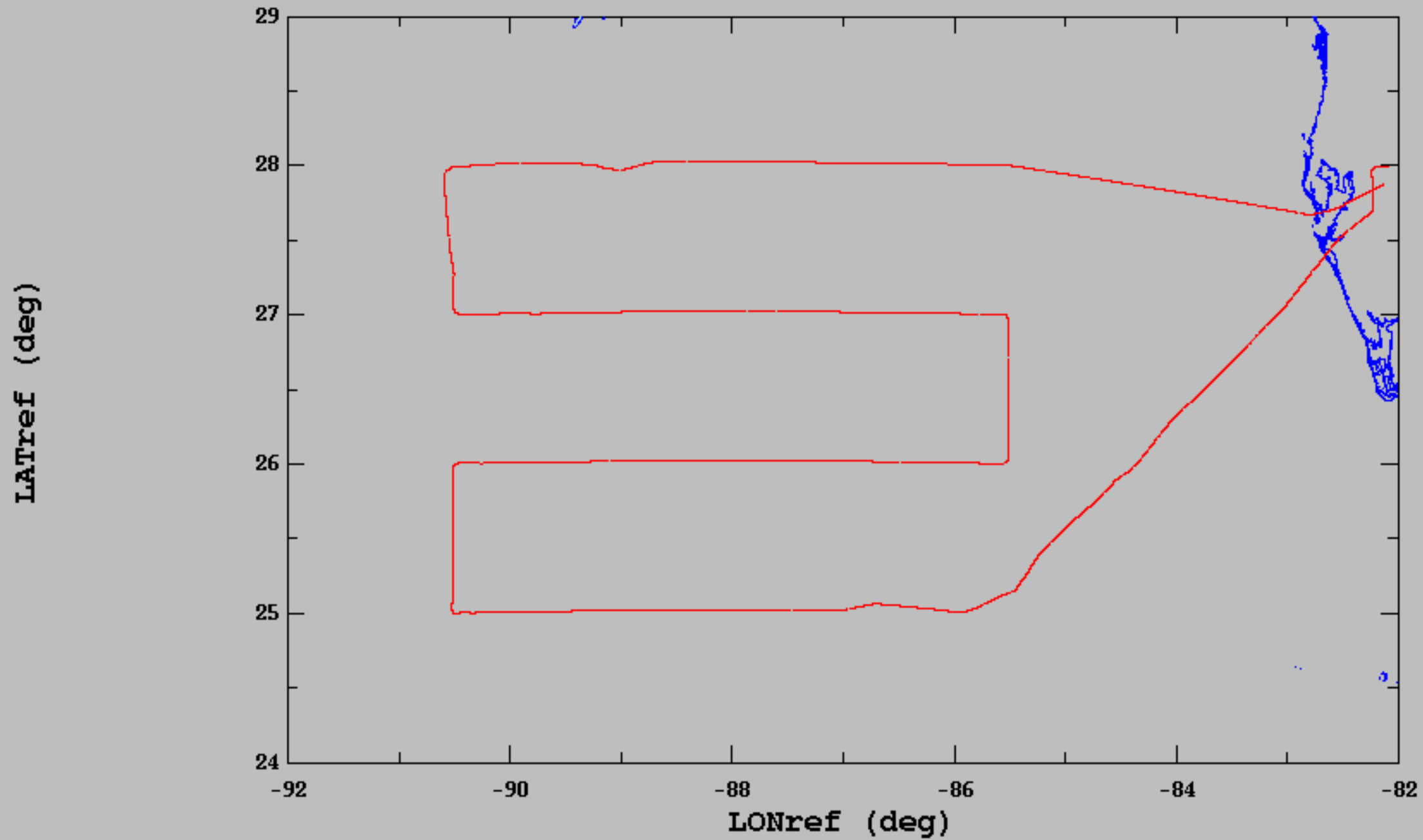
3-Oct-2017

OHC (kJ cm^{-2})



Ocean Heat Content Pre Nate

2017-10-05, 13:40:00-20:08:00



— LATref (deg), 1 s/sec
— LONref (deg), 1 s/sec

	mean	sigma	min	max
LATref (deg), 1 s/sec	26.63	1.08	25.00	28.02
LONref (deg), 1 s/sec	-87.00	2.45	-90.59	-82.07