

N42RF ERROR SUMMARY  
 Ocean Heat Content - Pre NATE

Flight ID: 20171005H1

Sensor or System	Number or Name
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZfilterI-GPS.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2017/MET/20171005H1

Local Met Data	Takeoff KLAL (1334Z)	Landing KLAL (2007Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.35256
AttackAngleSlope		6.11627
SlipAngleIntercept		0.23
SlipAngleSlope		6.9614

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Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

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.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	0	0	0
Test sondes	0	0	0
AXBTs	20	0	0
AXCPs	24	0	0
AXCTDs	5	0	0
UAS	0	0	0

Flight Director: Williams  
 Phone #: 863-500-3987

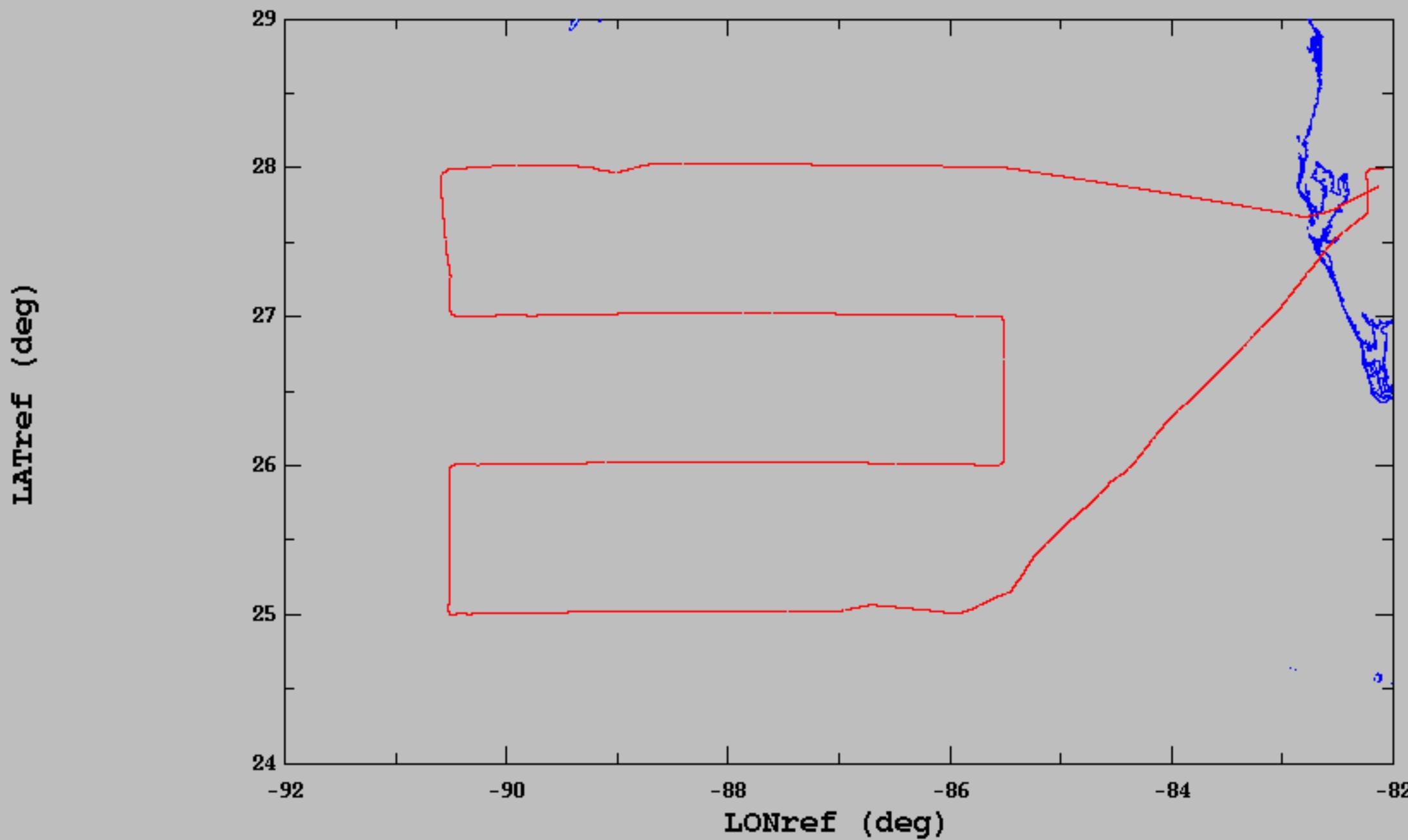
ACAT-4 Version = 7.1

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	Zhang, Jun HRD Wadler, Joshua Jaimes, Benjamin	A/C Takeoff		Good	Bad	Sent	
To:	KLAL	ETA:	2100Z		Rees							
Block Time		Flight Time		Nav(s):	Sloan			Wx Station Takeoff		BTs		
In:	2015	In:	2009		Heystek							Good
Out:	1328	Out:	1336	FE(s):	Sanchez		A/C Land					
Total:	6.8	Total:	6.6		Williams							
Sponsoring Org:		HRD		FD(s):	Visitors:		Wx Station Land		Storm Number ID:			
Program:		Ocean Heat Content			Warnecke	Obs: Kevin Doremus				(ie: AL072012)	AL162017	
Purpose:		TS Nate		SEB:	Mascaro	Obs: Brian Richards	TCPOD/WSPOD Mission					
					AVAPS:	Patel		(ie: NOAA2 2418A SANDY)	NOAA2 WA16A NATE			
AS REQUIRED BY ORM				Y	N	REMARKS	OBSERVATIONS					
VOLCANIC ASH				X		20 BT's 70/60	Fix Number	Obs Number	Fix Time	SLP		
SCIENCE MISSION WITHIN BDRY LAYER				x		24 CPS 5						
LACK OF PRECIPITATION				x		5 CTD's 83%						
RELATIVE HUMIDITY $\geq$ 80%				x		100						
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:								

# Ocean Heat Content Pre Nate

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

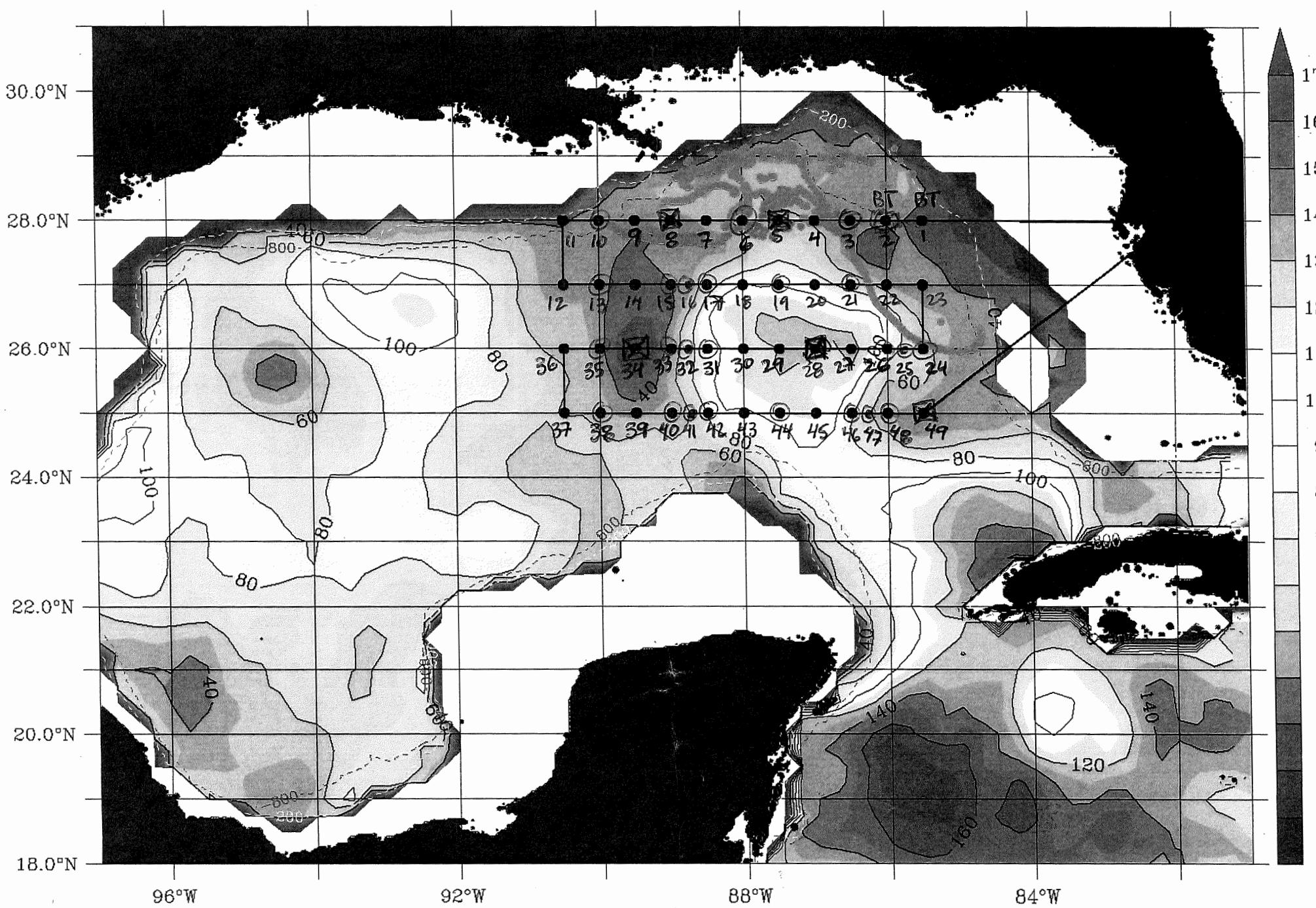


— LATref (deg), 1 s/sec  
— LONref (deg), 1 s/sec

	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

3-Oct-2017

OHC ( $\text{kJ cm}^{-2}$ )



## Playback Log

Flight Number 20171005A1

Takeoff Time \_\_\_\_\_

## Landing Time

**Storm** **Team**

## Playback Log

Flight Number 2012100541

### Takeoff Time

ATX 15.1: 20 (10 deep)

AXCTD: S (2 CH12 / 2 CH14 / 1 CH16)

AxCP: 24 (7 CH12 / 7 CH14 / 10 CH16)

### Landing Time

Team

## APPENDIX 1 – P3 QC Checklist

<b>Flight ID:</b>	20171005H1
<b>Flight Director(s):</b>	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	
	AltGPS.2	Alti-GPS.2	AltBCADDU.1	AltRA.2		
	AltGPS.3					
	AltGPS.4				ALTGA.d	
<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			
<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		
	LatGPS.3		LonGPS.3			
	LatGPS.4		LatGPS.4			
<input checked="" type="checkbox"/> Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHAREf	
	PDALPHA.2	PQBETA.1	PQM.2	PSM.2		
	PDBETA.1		PQM.3	PTM.1	PQALPHAREf	
	PDBETA.2		PQM.4			
<input checked="" type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	
<input checked="" type="checkbox"/> Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRateI.1		
	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	
	TTM.2	TDM.2	TRadS.1			
	TTM.3	TDM.3	TRadU.1			
<input checked="" type="checkbox"/> Miscellaneous (must check)					UWZ.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