Flight ID: 20190315N1

| 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 | AccZI.2 |
| Altimeter | AltGPS.2 |
| INE Selection | 2 |
| Differential Attack Pressure Probe | PDALPHA.2 |
| Differential Sideslip Pressure Probe | PDBETA.2 |
| Dynamic Attack Pressure Probe | PQALPHA.2 |
| Dynamic Sideslip Pressure Probe | PQBETA.2 |
| Flight Directory | acdata/2019/MET/20190315N1 |

| Local Met Data | Takeoff NSTU (2337Z) | Landing NSTU (0542Z) |
| --- | --- | --- |
| Dynamic Corrections | | Yes |
| AttackAngleIntercept | | 3.97801 |
| AttackAngleSlope | | 3.86172 |
| SlipAngleIntercept | | 1.258 |
| SlipAngleSlope | | 6.69941 |
| AttackAngleIntercept2 | | 5.04641 |
| AttackAngleSlope2 | | 5.41847 |
| SlipAngleIntercept2 | | 0.905 |
| SlipAngleSlope2 | | 6.78464 |

_____

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

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

Moisture and wind quantities unreliable. GPS.3 and TTM.2 inoperative. Data from TTM.3 particularly noisy. Flight Director was not aboard for real-time data analysis and thus _FDlog.dat, _serial.dat, _lp.txt, and _iwg.txt files are not available.

| Expendable Type | # deployed | # good | # transmitted |
| --- | --- | --- | --- |
| Dropsondes | 0 | 0 | 0 |
| Test sondes | 0 | 0 | 0 |
| AXBTs | 0 | 0 | 0 |
| AXCPs | 0 | 0 | 0 |
| AXCTDs | 0 | 0 | 0 |

| | | | |
|---|---|---|---|
| UAS | 0 | 0 | 0 |

Flight Director: N/A
Phone #: N/A

ACAT-4 Version = 7.2.2

# APPENDIX 2 – GIV QC Checklist

| Flight ID: | 20190315N1 |
|---|---|
| **Flight Director(s):** | Not aboard. |

**UWZ.d mean:** $-0.01$ post-processing

| Pressure Comparison | | |
|---|---|---|
| | **T/O** | **Land** |
| **Aircraft** | 1008.4 | 1008.1 |
| **Tower** | NSTU 2337Z 1008.0 | NSTU 0543Z 1008.4 |

PSM.1 (OB 0650Z)

| | Raw 1Hz Mean File Parameters | | | | C File Parameters | |
|---|---|---|---|---|---|---|
| ✓ Accelerometer | ✓ AccAXI.1 | ✓ AccAYI.1 | ✓ AccAZI.1 | | ✓ AccZref | |
| | ✓ AccAXI.2 | ✓ AccAYI.2 | ✓ AccAZI.2 | | | |
| | ✓ AccAXI.3 | ✓ AccAYI.3 | ✓ AccAZI.3 | | | |
| ✓ Altitude | ✓ AltGPS.1 | ✓ AltI.1 | ✓ AltPaADDU.1 | ✓ AltBCADDU.1 | ✓ ALTref | |
| | ✓ AltGPS.2 | ✓ AltI.2 | ✓ AltPaADDU.2 | ✓ AltBCADDU.2 | ✓ ALTPA.d | |
| | ✗ AltGPS.3 | ✓ AltI.3 | ✓ AltRA.1 | | ✓ ALTGA.d | |
| ✓ Ground Speed | GsXI-GPS.1 | ✓ GsXI.1 | ✓ GsGPS.1 | ✓ GsXGPS.1 | ✓ GSXref | |
| | GsXI-GPS.2 | ✓ GsXI.2 | ✓ GsGPS.2 | ✓ GsXGPS.2 | ✓ GSYref | |
| | GsYI-GPS.1 | ✓ GsXI.3 | | ✓ GsYGPS.1 | ✓ GSZref | |
| | GsYI-GPS.2 | ✓ GsYI.1 | ✓ GsZI.1 | ✓ GsYGPS.2 | | |
| | GsZI-GPS.1 | ✓ GsYI.2 | ✓ GsZI.2 | ✓ GsZGPS.1 | | |
| | GsZI-GPS.2 | ✓ GsYI.3 | ✓ GsZI.3 | ✓ GsZGPS.2 | | |
| ✓ Lat/Lon | ✓ LatGPS.1 | ✓ LatI.1 | ✓ LonGPS.1 | ✓ LonI.1 | ✓ LATref | |
| | ✓ LatGPS.2 | ✓ LatI.2 | ✓ LonGPS.2 | ✓ LonI.2 | ✓ LONref | |
| | ✗ LatGPS.3 | | ✗ LonGPS.3 | | | |
| ✓ Pressure | ✓ PDALPHA.1 | ✓ PQALPHA.1 | ✓ PQM.1 | ✓ PSM.1 | ✓ PDALPHAref | ✓ PQMref |
| | ✓ PDALPHA.2 | ✓ PQALPHA.2 | ✓ PQM.2 | ✓ PSM.2 | ✓ PDBETAref | ✓ PQ.c |
| | ✓ PDBETA.1 | ✓ PQBETA.1 | | | ✓ PQALPHAref | ✓ PSMref |
| | ✓ PDBETA.2 | ✓ PQBETA.2 | | | ✓ PQBETAref | ✓ PS.c |
| ✓ Air Speed | ✓ CasADDU.1 | ✓ TasADDU.1 | IasADDU.1 | | ✓ IAS.d | ✓ TAS.d |
| ✓ 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 | | |
| ✓ Temp/Dewpt | ✓ TTM.1 | ✓ TTM.4 | ✓ TDM.1 | | ✓ TD.c | ✓ TTMref |
| | ✗ TTM.2 | | ✓ TDM.2 | | ✓ TDMref | ✓ TA.d |
| | ✓ TTM.3 | | | | | |
| ✓ Miscellaneous (must check) | | | | | ✓ UWZ.d | ✓ WS.d |
| | | | | | ✓ DPJ_WSZ | ✓ WD.d |
| | | | | | ✓ HUM | |

## FLID_Mission_Documents.pdf:

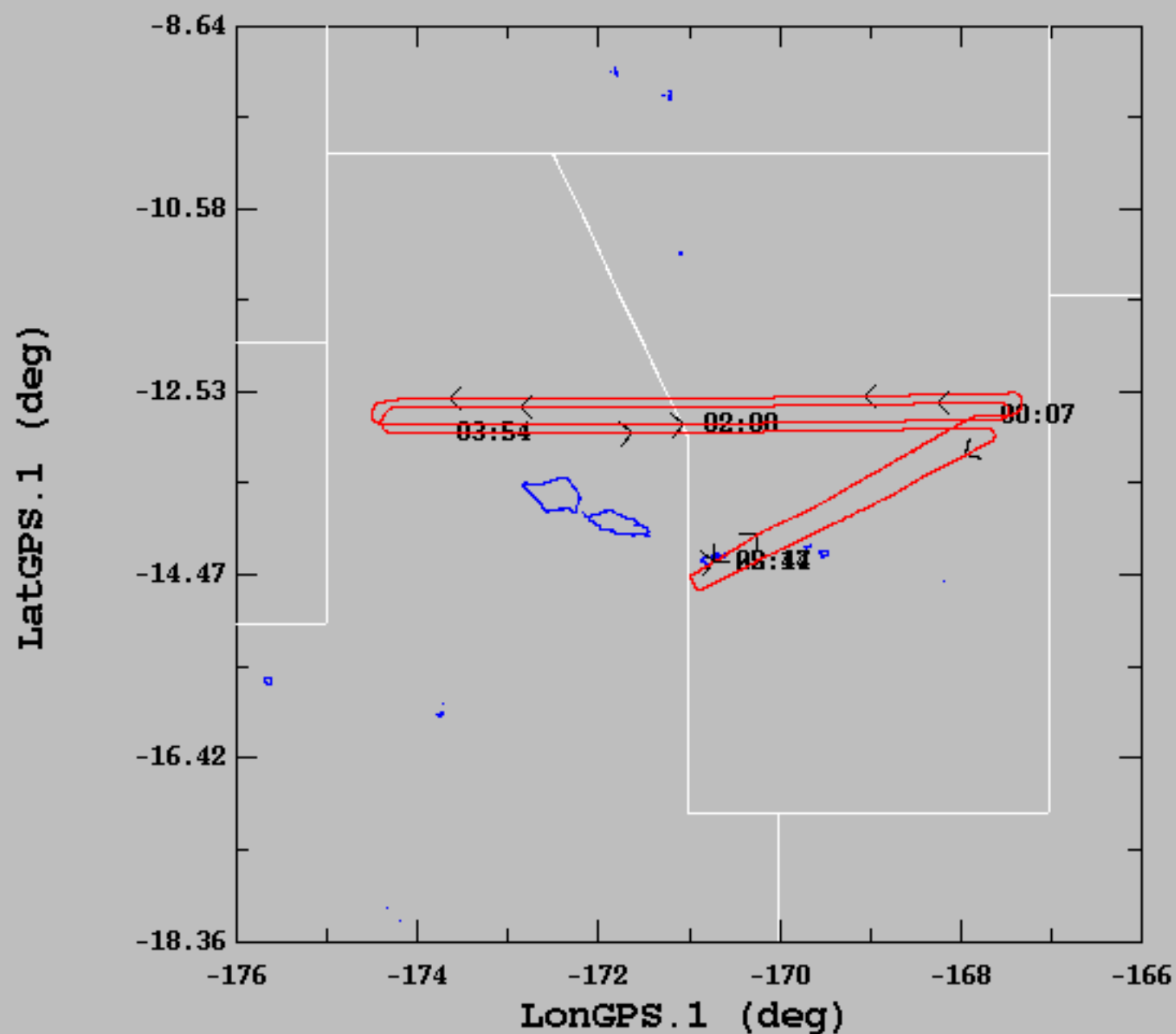| | |
|---|---|
| ✓ | Error Summary |
| ✗ | Crew Manifest    Not available. |
| ✓ | QC checklist |
| ✗ | Dropwindsonde Log(s) – AVAPS and FD if completed   NO DROPS |
| ✓ | Flight Track |
| ✗ | Miscellaneous FD notes    No FD aboard. |

## NOTES:

GPS.3 INOP           Moisture quantities unreliable.

TTM.2 unavailable

TTM.3 noisy

2019-03-15, 22:14:01-29:47:51