**ICECAPS-ACE Weekly Report**

January 14 – January 20, 2019

Gus Allen



*Radiosonde balloon launch Friday, January 18.*

**General:** The MSF continues to require daily adjustments to account for large swings in ambient temperature. I have completed digging out and raising cables leading to the POSS.

**Significant Weather Observations:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Time (Z)** | **Wind** | **Weather** | **Visibility** | **Sky** | **Temp** | **Notes** |
| 1-14 | 12 | 11kts from 168 |  | 9999 | FEW100 | -55 |  |
| 1-15 | 12 | 13kts from 180 | FZFG BLSN | 0600 | SCT000 SCT100 | -46 |  |
| 1-16 | 12 | 12kts from 180 | FZFG SN | 0800 | FEW000 SCT020 | -42 |  |
| 1-17 | 12 | 10kt from 220 | FZFG | 0800 | BKN000 | -47 |  |
| 1-18 | 12 | 17kt from 210 | FZFG SN | 0400 | Sct000 BKN012 | -40 |  |
| 1-19 | 12 | 17kt from 140 |  | 9999 | FEW010 | -40 |  |
| 1-20 | 12 | 16kt from 150 | BR | 0800 | FEW000 BKN060 | -44 |  |

**ICECAPS-ACE Data Management:**

* 1-14: Data transfer complete at 1413Z
* 1-15: Data transfer complete at 1242Z
* 1-16: Data transfer complete at 1315Z
* 1-17: Data transfer complete at 1254Z
* 1-18: Data transfer complete at 1359Z
* 1-19: Data transfer complete at 1341Z
* 1-20: Data transfer complete at 1408Z

**MWR:**

* Operating normally.

**SODAR:**

* Operating normally.

**POSS:**

* Operating normally.

**MMCR:**

* 1-14: More Net CDF errors
* 1-15: Restart initiated at 1355Z. Complete with no errors at 1437Z. Three restarts required.
* 1-16: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
* 1-17: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
* 1-18: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
* 1-19: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
* 1-20: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
* Operating normally.

**CAPABL:**

* 1-18: at 14Z, CAPABL window was found obstructed by snow. I manually set the laser power 1 to clear the window, and set the power back to 10 at 1439z
* Instrument currently operating normally using laser 2

**MPL:**

* 1-14: At daily check I found the system clock to be about 1 minute off from the MSF time server. After communicating with Matt Shupe, I changed a system setting in Windows and I now believe the Windows internet time syncing function should work.
* Operating normally.

**VCEIL:**

* Operating normally.

**IceCAM:**

* Operating normally.

**PAERI:**

* Operating normally.

**TSI:**

* Offline for winter season.

**IcePIC:**

* Images captured 1-16.

**Radiosonde:**

* Twice daily launches.

**MASC:**

* Instrument offsite for repair, will not return until summer 2019.

**OPC:**

* 1-15: OPC removed from roof to remove rime.
* 1-17: OPC remounted on roof and data collection restarted.
  + I have added a cardboard plate with an electrical tape surface to the intake as a possible anti-riming solution.
* 1-18: OPC plot not updating. Data do not appear to be transferring between the ACE Pi and the ACE-1 laptop. I contacted Heather about this. (This is restored 1-21)
* The ACE mount is not present for DATAMAN, so OPC data are not being transferred offsite. Neely is working on this issue.

**CLASP:**

* Instrument off site.

**CPC:**

* Instrument off site.