

ICECAPS-ACE Weekly Report

April 22 – April 28, 2019

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This summer's first LC-130 taxiing on the skiway.

General Notes: The first LC-130 of the 2019 summer season arrived on Sunday, 4-28, carrying the summer season science techs, Jonathon Miller, and Jenny Mowatt. Weather looks favorable for a busy flight period, with ICECAPS-ACE cargo, CAPABL shipping materials, and LN2 for calibrating the MWR are expected to arrive early in the coming week.

General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp	Notes
4-22	12	11kt from 150		9999	FEW130	-33	
4-23	12	13kt from 180	IC BR	1800	SCT035	-27	
4-24	12	33kt from 120	BLSN	100	VV003	-22	
4-25	12	25kt from 100	IC BLSN	300	OVC010	-16	
4-26	12	17kt from 130	FZFG	800	FEW100	-19	
4-27	12	11kt from 120	BR	1600	SCT100	-18	
4-28	12	11kt from 120		9999	FEW032 SCT190	-16	

Significant Weather Observations:

- 4-25 2030-2230Z: Partial 22-degree halo with particularly vibrant parhelia observed.
- 4-26 0830-1330Z: 22-degree halo observed during diamond dust precipitation. Coincident IcePICs taken.
- 4-28: Fresh deposition of large stellar dendrites overnight. Surface samples collected and photographed.

ICECAPS-ACE Data Management:

- 4-22: Data transfer completed at 0414Z.
- 4-23: Data transfer completed at 0412Z.
- 4-24: Data transfer completed at 0416Z.
- 4-25: Data transfer completed at 0446Z.
- 4-26: Data transfer completed at 0455Z.
- 4-27: Data transfer completed at 0456Z.
- 4-28: Data transfer completed at 0448Z.

MWR:

- Operating normally.

SODAR:

- Operating normally.

POSS:

- 4-27 1043Z: One instance of fault code “DC offset”.
- Operating normally

MMCR:

- Temp (outside) value continues out of tolerance (at 30)
- Operating normally.

CAPABL:

- Instrument currently offline.

MPL:

- Operating normally.

VCEIL:

- Operating normally.

IceCAM:

- Operating normally

PAERI:

- Operating normally.

TSI:

- Offline for winter season.

IcePIC:

- 4-22: One sampling session photographed. Uploaded 4-25.
- 4-26: One sampling session photographed and uploaded.

Radiosonde:

- 4-28 0000Z: Sounding burst altitude ~10km.
- Twice daily launches.

MASC:

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

OPC:

- Operating normally.

CLASP:

- Instrument off site.

CPC:

- A small shelf was installed beneath the ACE bench to accommodate the CPC condensate reservoir.
- Operating normally