
Science Flight Report

Operation IceBridge Arctic 2012



Flight: Falcon 07
Mission: Southeast Grid-1 (land ice)

Flight Report Summary

| | |
|----------------------------|---|
| Aircraft | Falcon (HU-25) N525 |
| Flight Number | Falcon 07 |
| Flight Log number | 12F001 |
| Date | Friday, May 4, 2012 (Z) |
| Purpose of Flight | Flight to southeast Greenland with the purpose of repeating ATM lines in the upper drainage basin of the Helheim glacier. |
| Take off time | 1100 Zulu at Kangerlussuaq |
| Landing time | 1415 Zulu at Kangerlussuaq |
| Flight Hours | 3.25 hours |
| Aircraft Status | Airworthy. |
| Sensor Status | All installed sensors operational. |
| Significant Issues | None. |
| Accomplishments | • Flew repeat survey lines over drainage basin of Helheim glacier |
| Geographic Keywords | Southeast Greenland |
| Satellite Tracks | none |
| Repeat Mission | repeated 2010 ATM lines. |

Science Data Report Summary

| Instrument | Data Volume | | | Instrument Issues |
|--------------|-------------------------------------|-------------------------------------|-------|-------------------|
| | Survey Area | Entire Flight | | |
| LVIS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 35 GB | None |
| LVIS cameras | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 50 GB | None |

Mission Report (Seelye Martin, Acting Project Manager)

Flew to southeast Greenland to fly three lines in the region around Helheim. These lines repeat portions of ATM lines for the years 2006, 2010 and 2011. This part of southeast Greenland has the most productive glaciers. The weather was good and generally cloud-free. The distances flown were as follows:

384 km for northern line,
384 km for middle line,
400 km for southern line,
subtotal of 1,168 km for the three lines.

The laser operators were Helen Cornejo and Shane Wake. Preliminary examination of the camera and LVIS data shows that the instruments worked well.

Individual instrument reports from experimenters on board the aircraft:

LVIS: The LVIS system worked well and collected data for all of the flight.

LVIS-cameras: worked well.

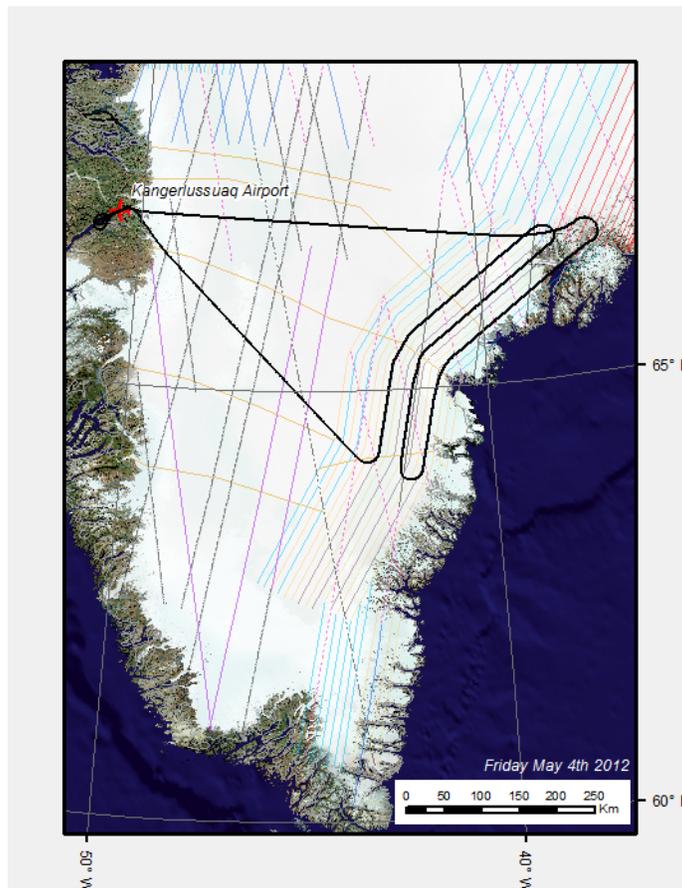


Figure 1: Figure showing trajectory for southeast grid-1 flight.