

**TO: Suborbital Science Program
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Flight Report

Aircraft :	Kenn Borek Air DC-3T Basler
Operating Site(s) From / To :	NZIR/NZIR
Flight Date :	November 17, 2009 (NZDT)
Flight Number / Data Flight # :	F07 / 4
Time out:	0321 UTC
Time in:	0845 UTC
Flight Time :	6:24 hrs
Flt Request # / PI:	NASA 20090602-084128 (Blankenship)
Purpose of Flight :	Data [X] Ferry [] Functional Check [] Other []
Sensor Payload :	University of Texas at Austin HiCARS ice penetrating radar; UT Reigl LD-90 laser distance meter; UT Geometrics 823-A magnetometer; USAF Sigma Space photon counting lidar
Comments :	The aircraft flew its first survey flight in its NASA/NERC/NSF ICEBRIDGE/ICECAP configuration from McMurdo's sea ice runway. The radar hardware, laser altimeter (non-scanning) and magnetic fields instruments all performed well. The lidar prototype had some teething issues but collection of surface swath data was confirmed, while a complementary nadir looking camera collected data through the flight. All systems acquired data over the Byrd Glacier lake district, including ICESAT tracks 239 and 105.

SUBMITTED BY: Duncan Young 21 November 2009