

**TO: Suborbital Science Program**  
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## **Flight Report**

<b>Aircraft :</b>	Kenn Borek Air DC-3T Basler
<b>Operating Site(s) From / To :</b>	Casey Skiway/Casey Skiway
<b>Flight Date :</b>	December 17, 2009 (AEDT)
<b>Flight Number / Data Flight # :</b>	F23 / 21
<b>Time out:</b>	<b>0920 UTC</b>
<b>Time in:</b>	<b>1641 UTC</b>
<b>Flight Time :</b>	7.3 hrs
<b>Flt Request # / PI:</b>	NASA 20090602-084128 (Blankenship)
<b>Purpose of Flight :</b>	<b>Data [X] Ferry [ ] Functional Check [ ] Other [ ]</b>
<b>Sensor Payload :</b>	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, NGA BGM-3 gravity meter
<b>Comments :</b>	The aircraft flew on its third survey flight from Casey's skyway. A coast parallel line was flown for offshore bathymetry using gravity, followed by reflights of icesat tracks 196 and 330 for surface elevation, along the main trunk of Totten Glacier. Valid laser data was recovered from 90% of the line. Cloud, reports of fog and strong winds from Law Dome prevented a gravity tie line from being collected at the end of the flight.  All systems performed excellently – 2186 line kilometers of data were collected.

**SUBMITTED BY: Duncan Young      22 December 2009**