

**High Altitude MMIC Sounding Radiometer (HAMSR)**

TCSP Field Campaign

Flight Data Summary—Science Maps

**2005 July 27**

**I. High Level Summary**

This was the last science sortie of the campaign. As there were no highly interesting weather patterns identified for observation and no support from/coordination with NOAA, this flight plan was designed to be an AURA and AQUA underpass.

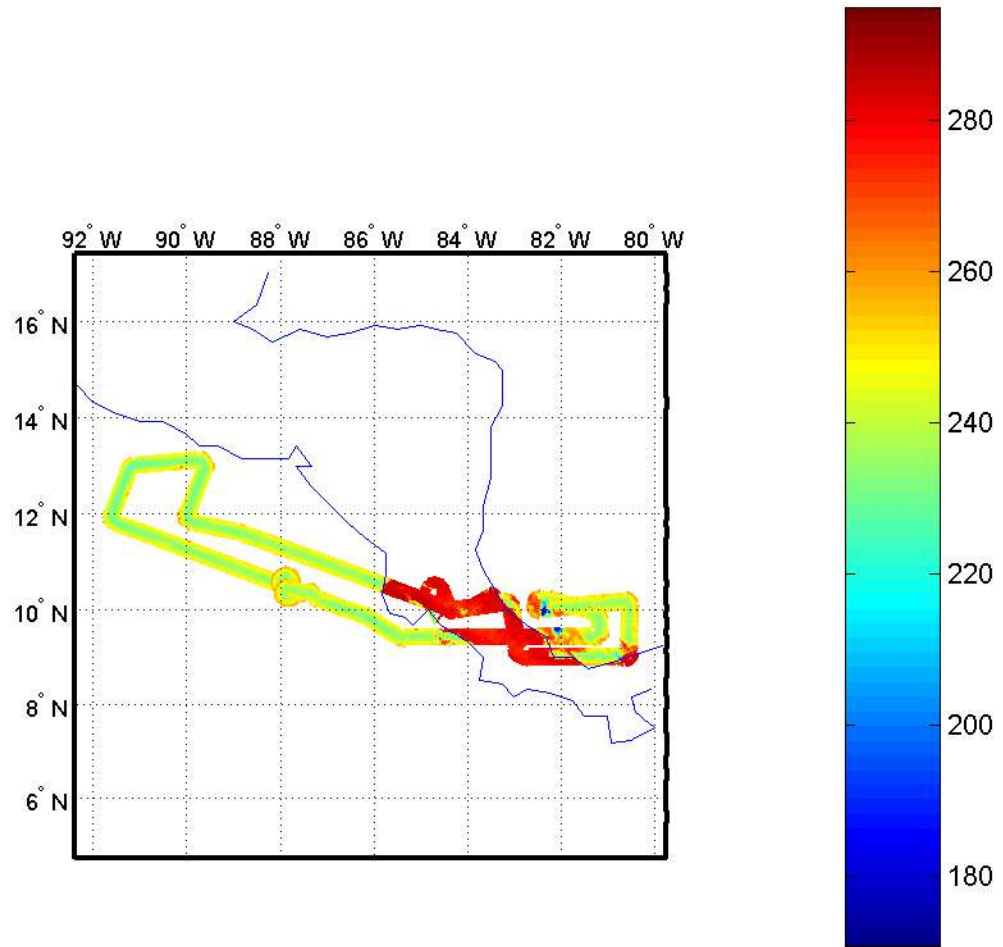
HAMSR performed nominally with no problems to report.

**II. Instrument State and Parameters**

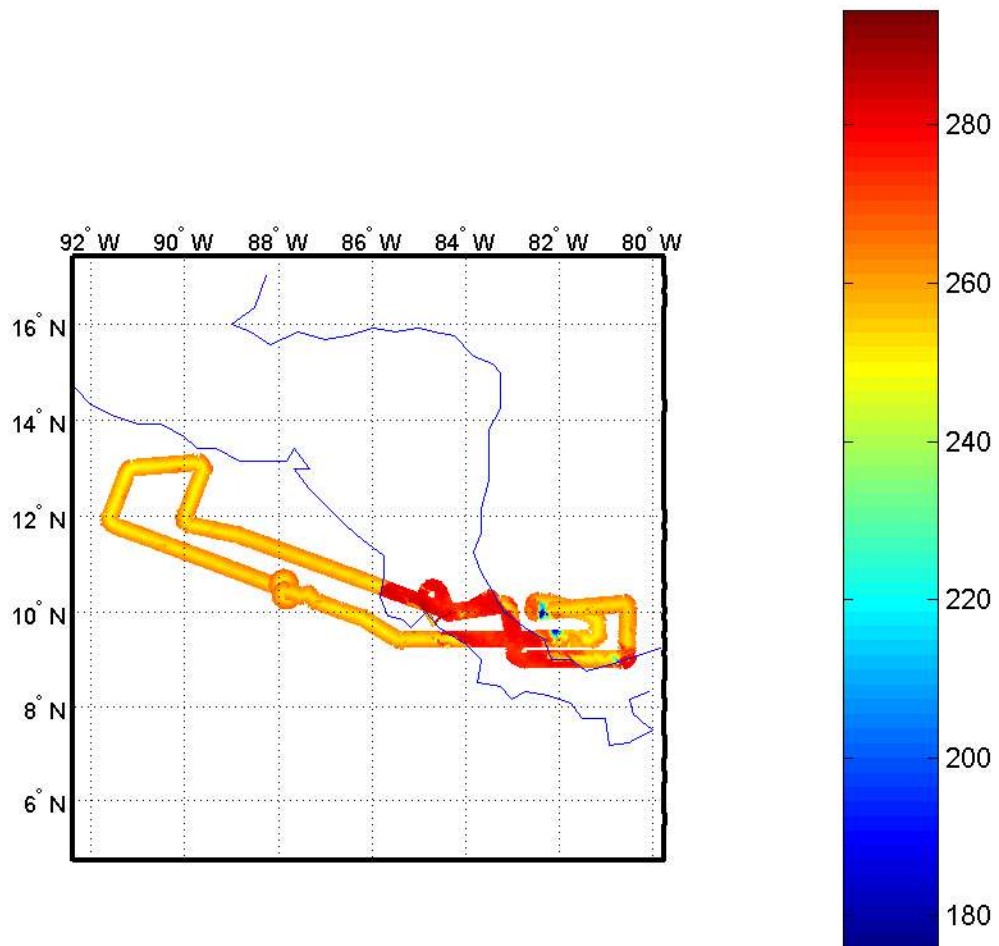
Instrument Power	ON
Fan Power	ON
Pod Heaters	ON
Seal Added Around Pod Window/Radome	NO
LN2 Load Used Pre-Flight	YES
Pre-Flight Data File Name	05072702.072
Flight Data File Name	05072705.541

### III-a. Selected Maps

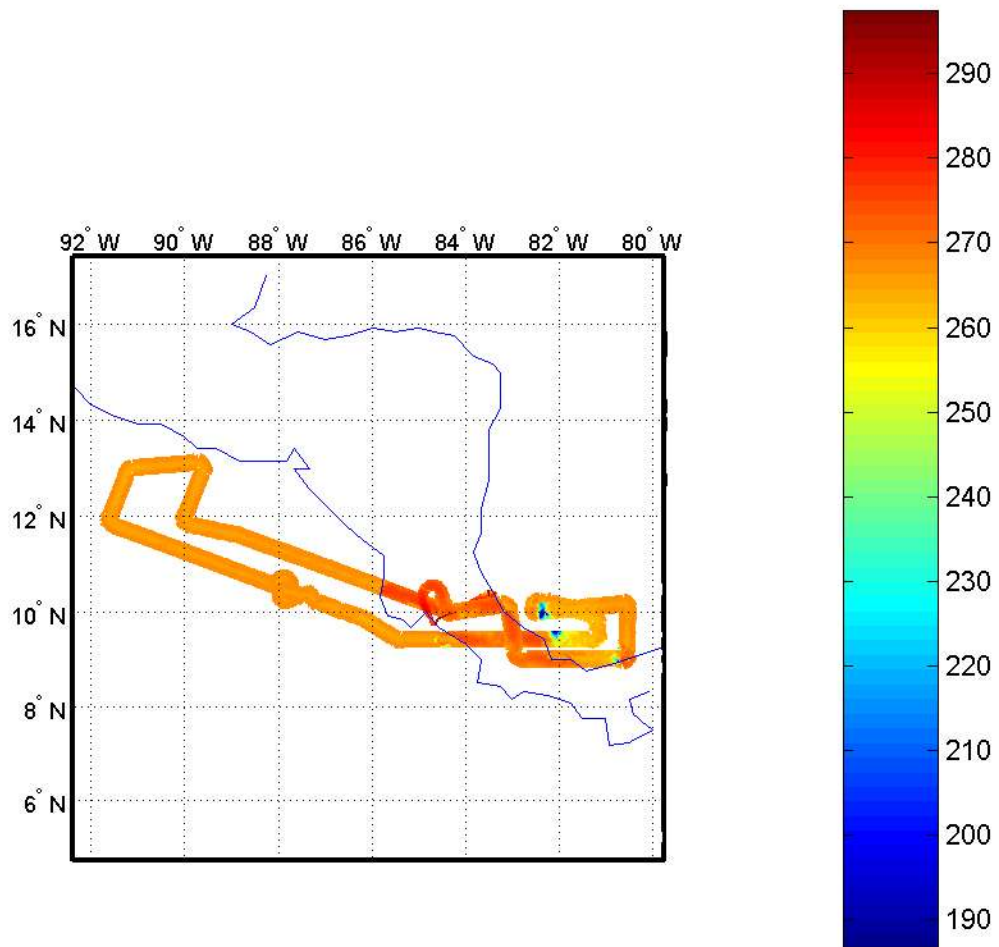
50.3 GHz brightness temperature(surface)  
27-Jul-2005 05:54:56 -- 11:40:29



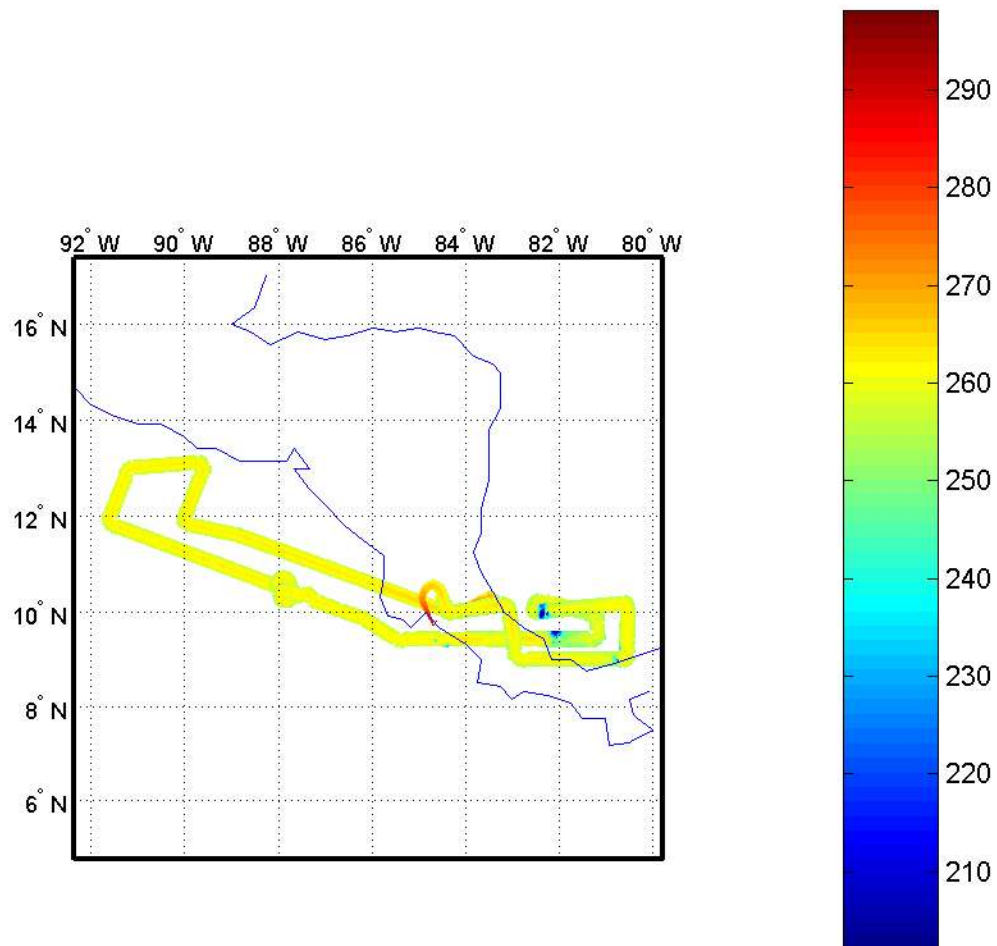
51.76 GHz brightness temperature(surface)  
27-Jul-2005 05:54:56 -- 11:40:29



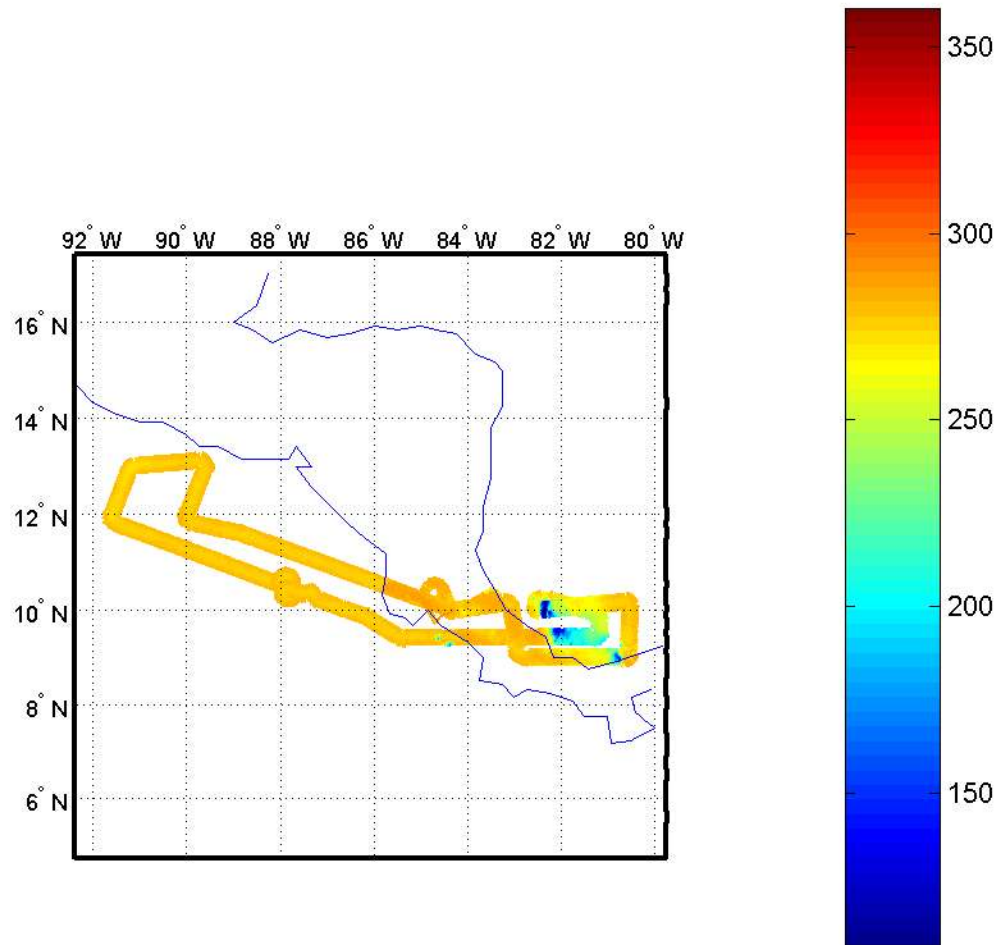
52.8 GHz brightness temperature(1000mB)  
27-Jul-2005 05:54:56 -- 11:40:29



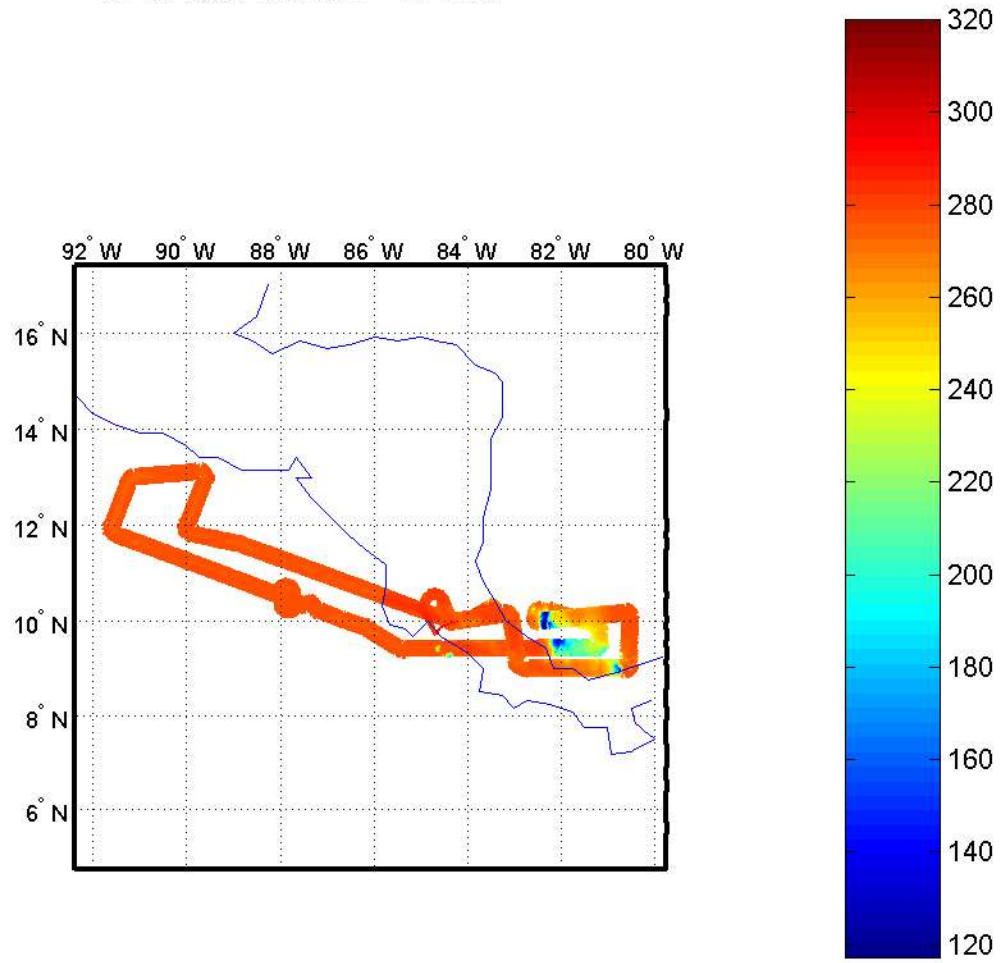
53.596 GHz brightness temperature(750mB)  
27-Jul-2005 05:54:56 -- 11:40:29



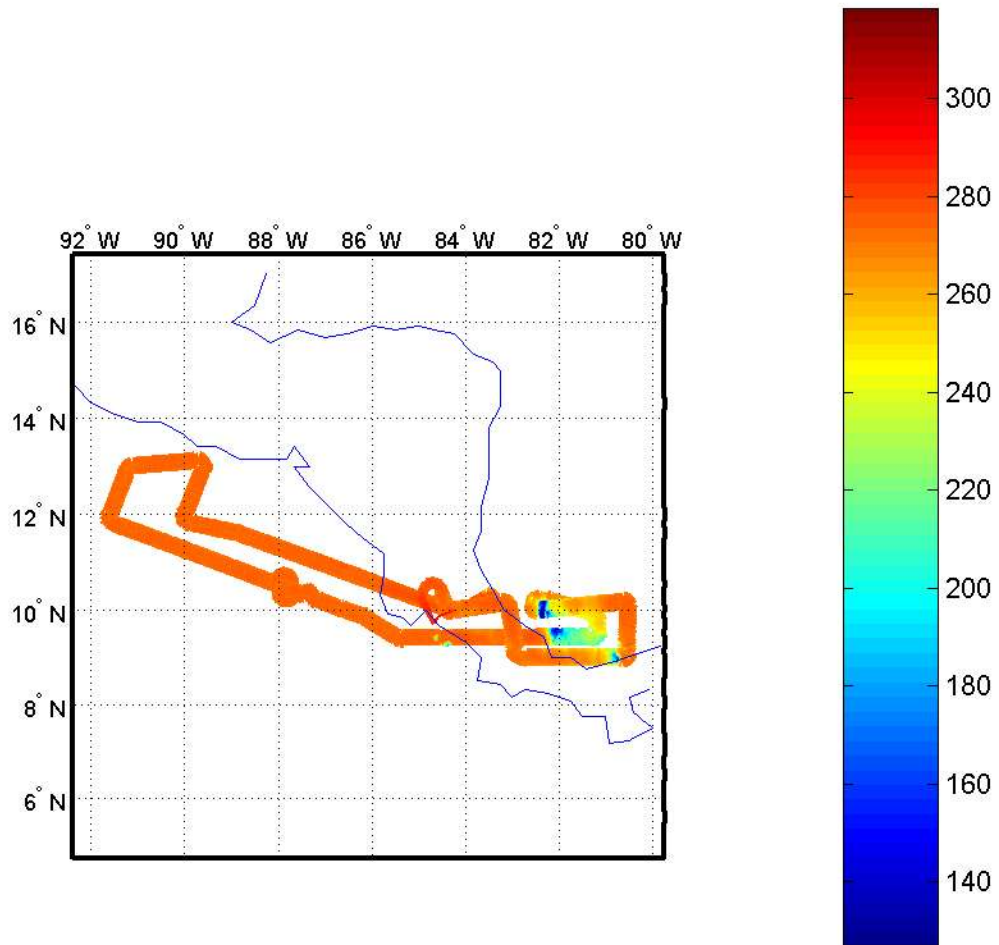
113.25 GHz brightness temperature(surface)  
27-Jul-2005 05:54:56 -- 11:40:29



115.25 GHz brightness temperature(surface)  
27-Jul-2005 05:54:56 -- 11:40:29

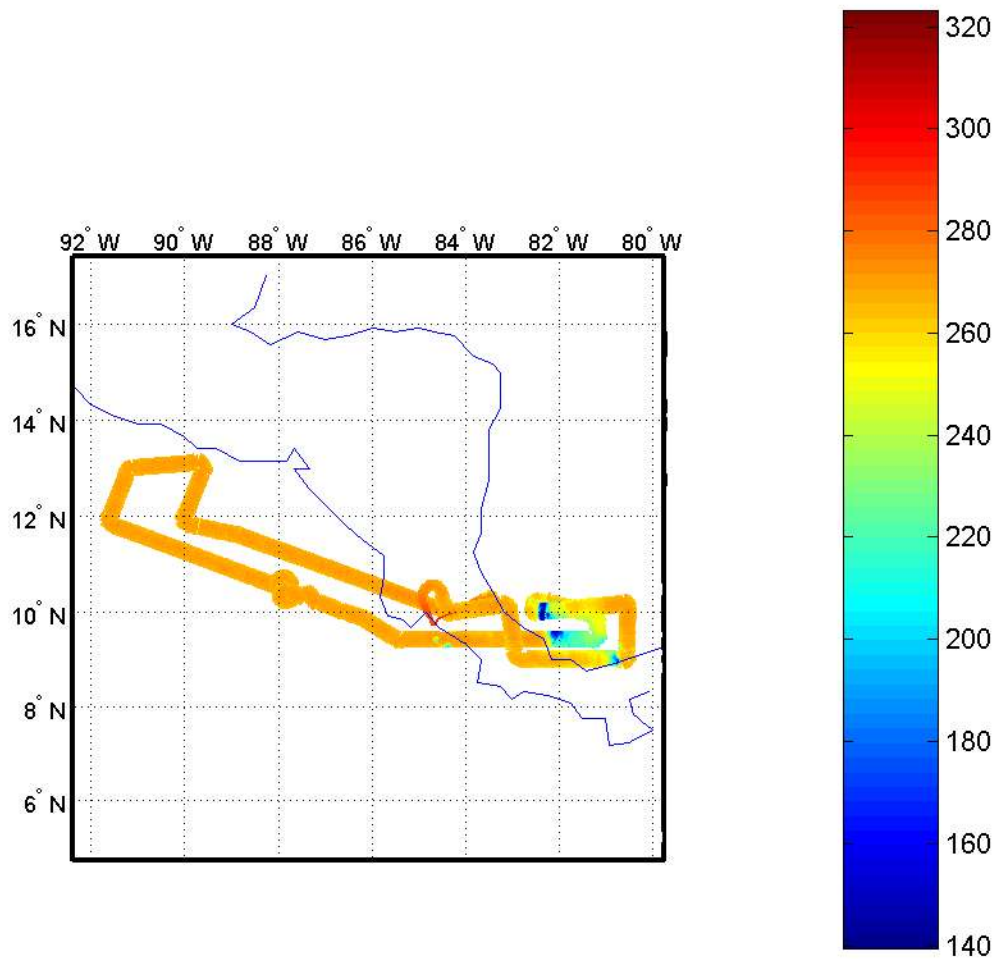


116.2 GHz brightness temperature(surface)  
27-Jul-2005 05:54:56 -- 11:40:29

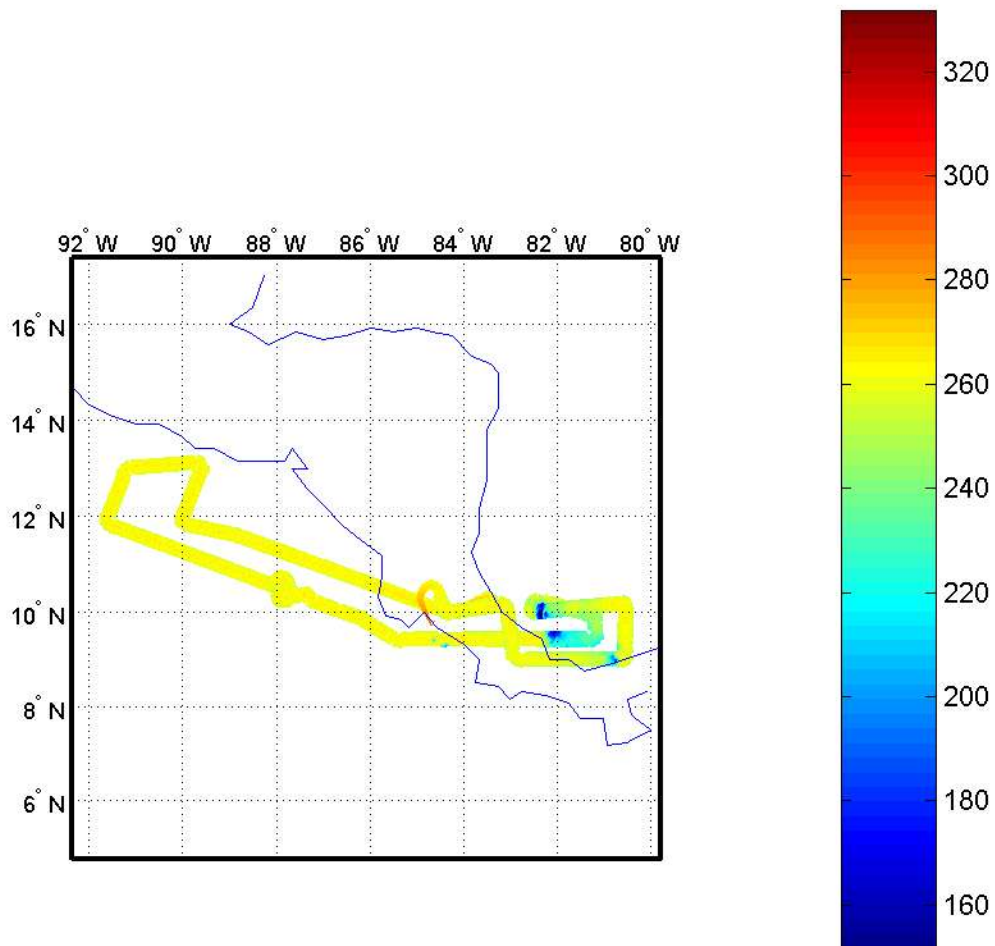




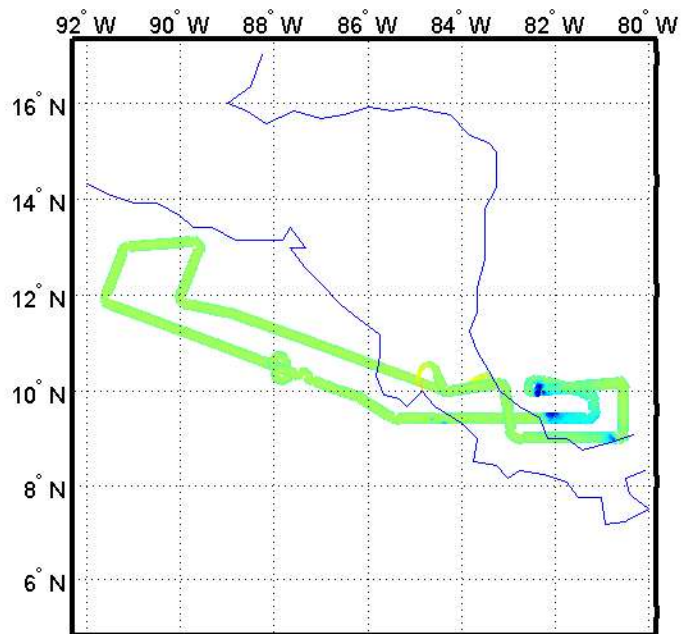
116.7 GHz brightness temperature(1000mB)  
27-Jul-2005 05:54:56 -- 11:40:29



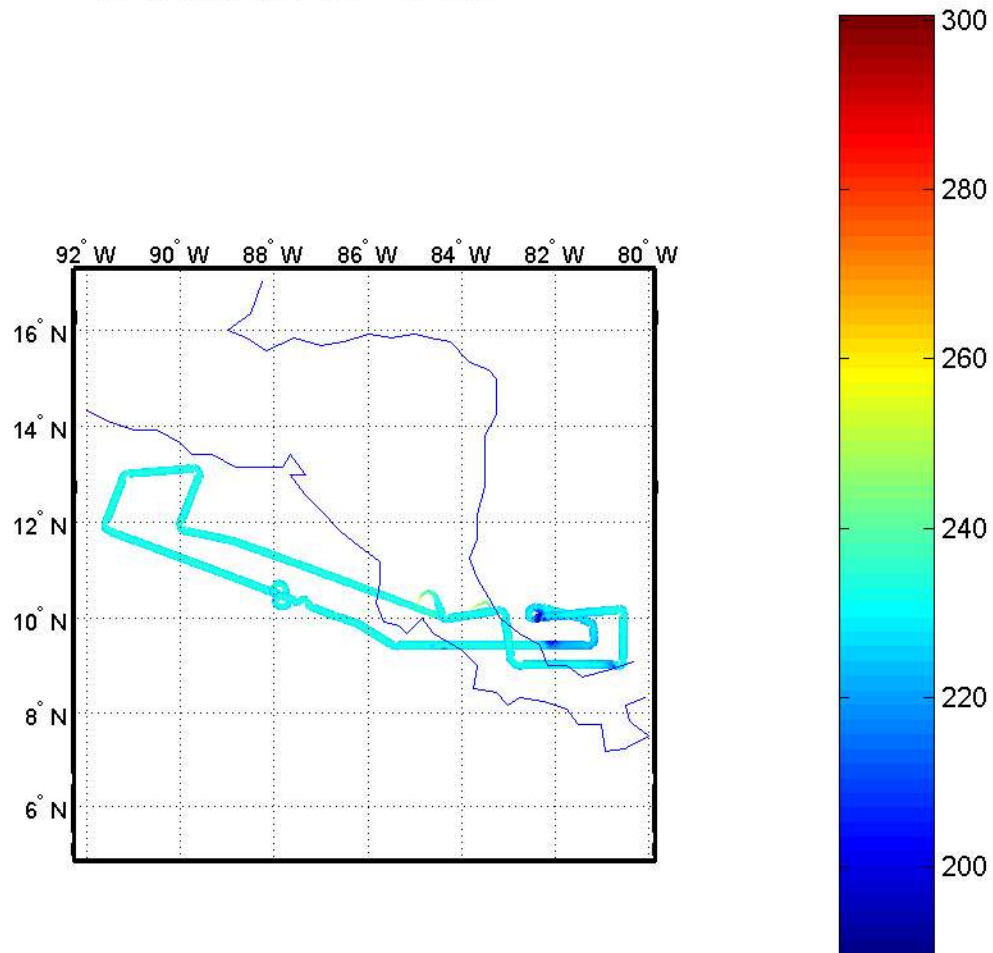
117.15 GHz brightness temperature(750mB)  
27-Jul-2005 05:54:56 -- 11:40:29



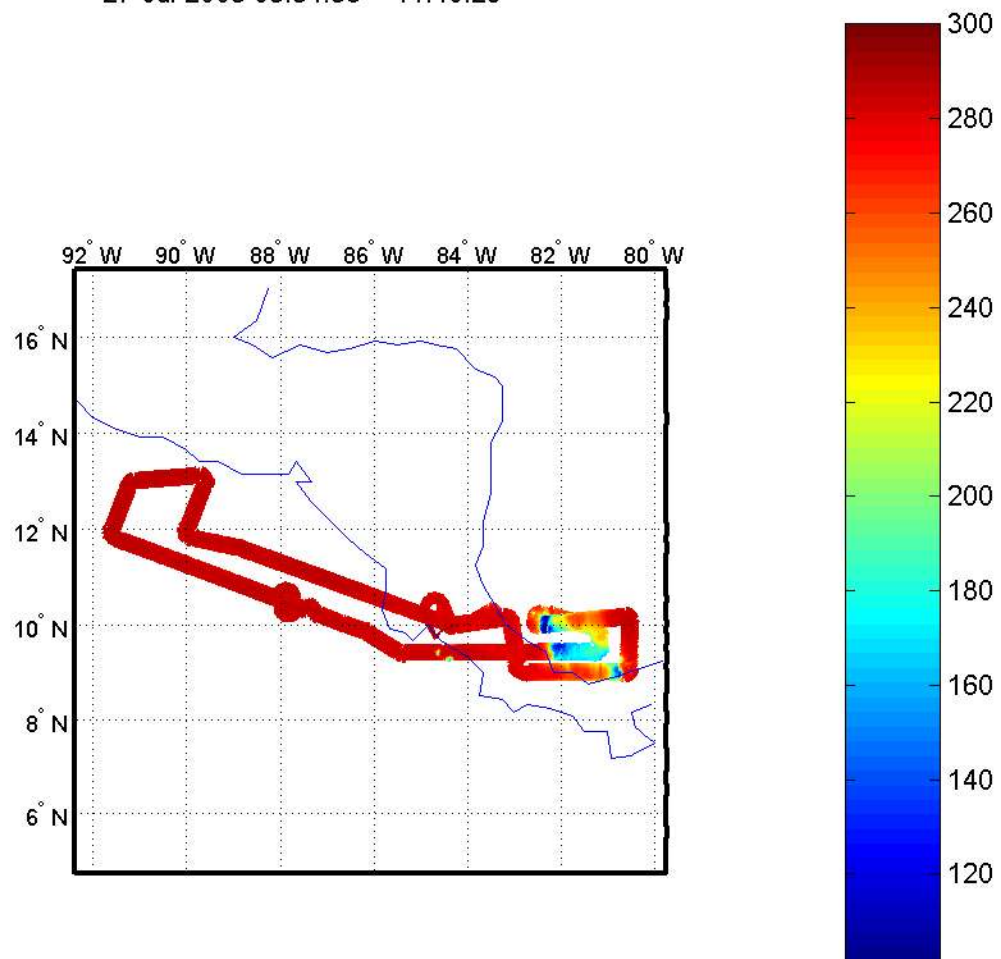
117.55 GHz brightness temperature(400mB)  
27-Jul-2005 05:54:56 -- 11:40:29



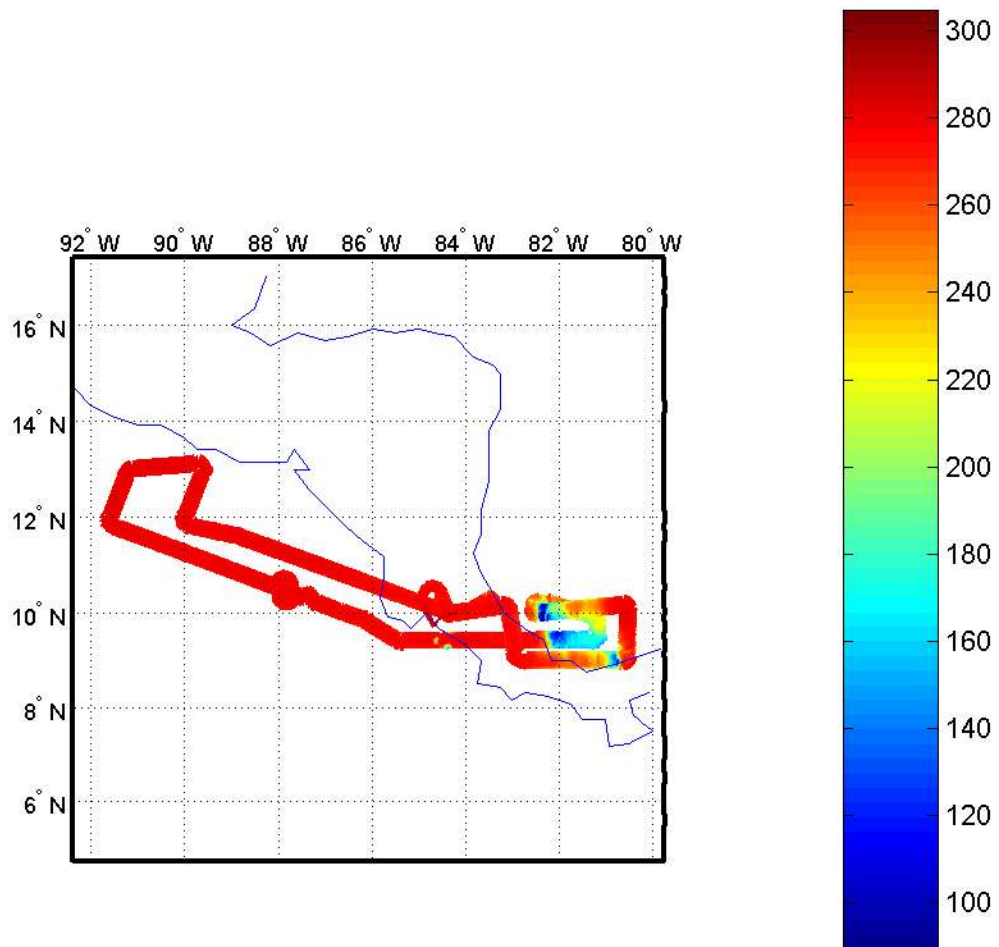
117.95/119.55 GHz brightness temperature(250mB)  
27-Jul-2005 05:54:56 -- 11:40:29



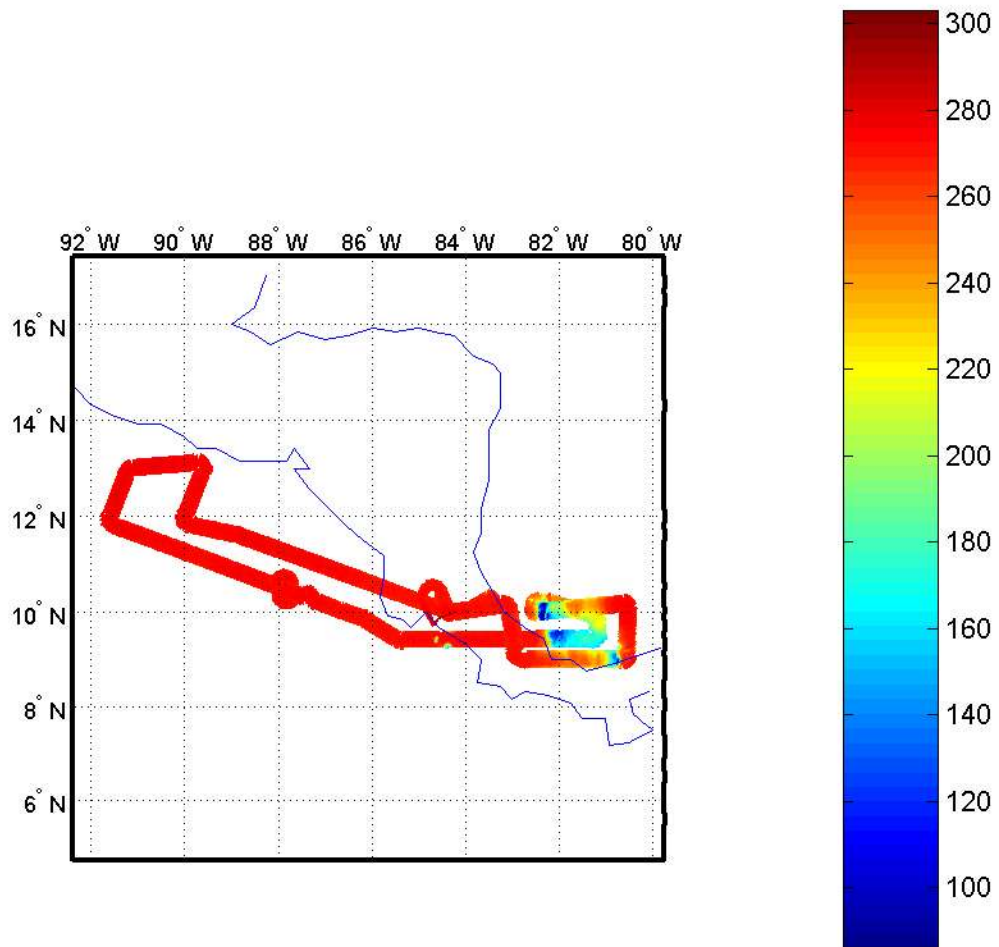
166 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29



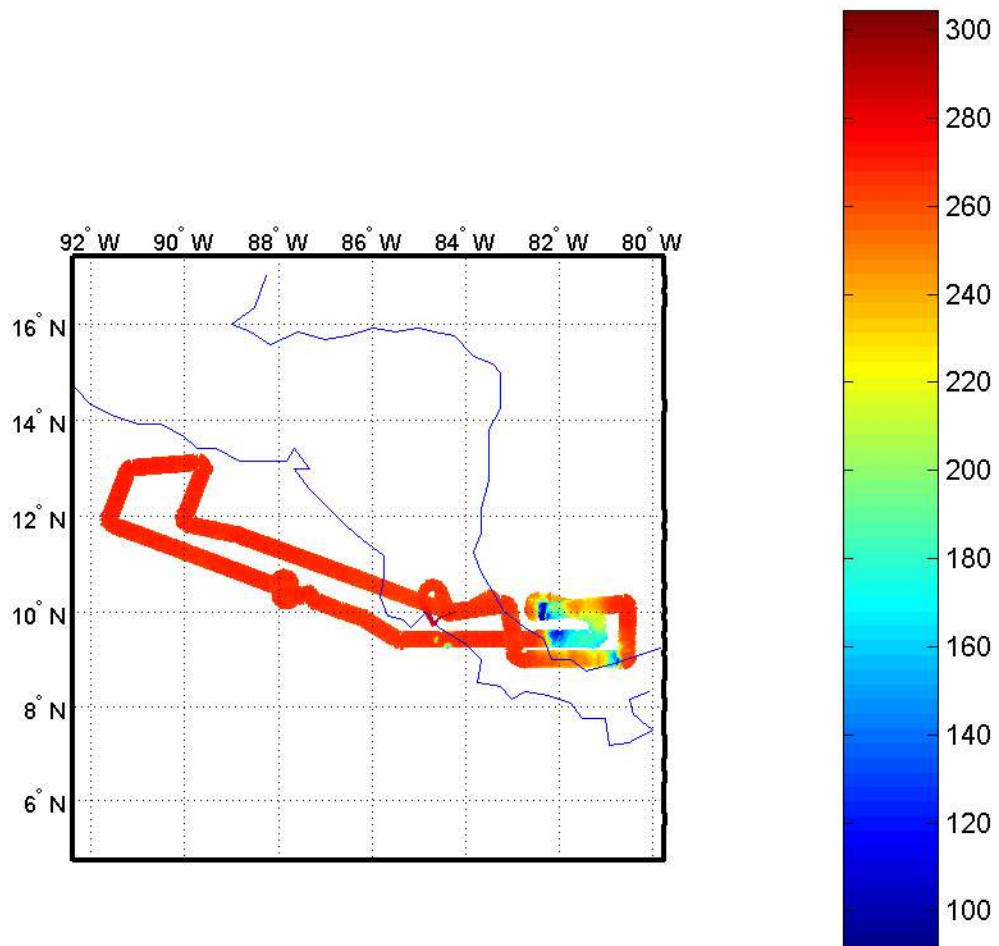
173.31/193.31 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29



186.31/190.31 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29

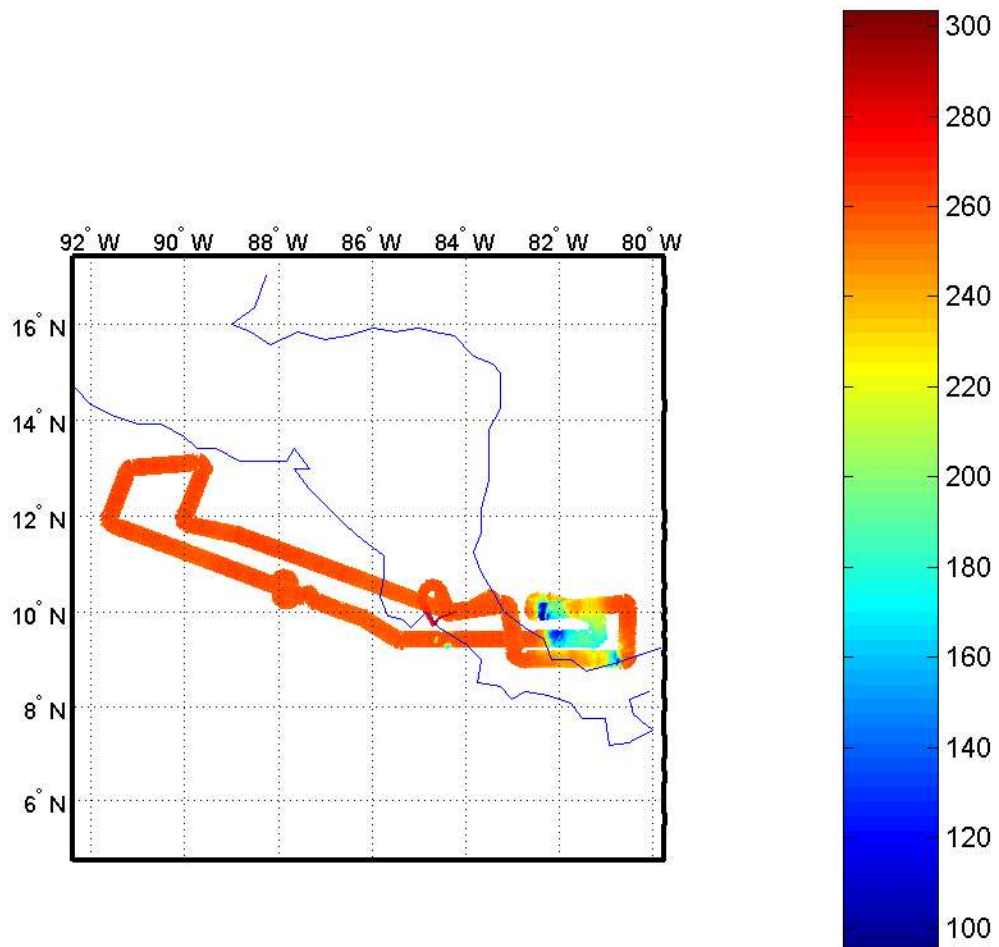


178.81/187.81 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29

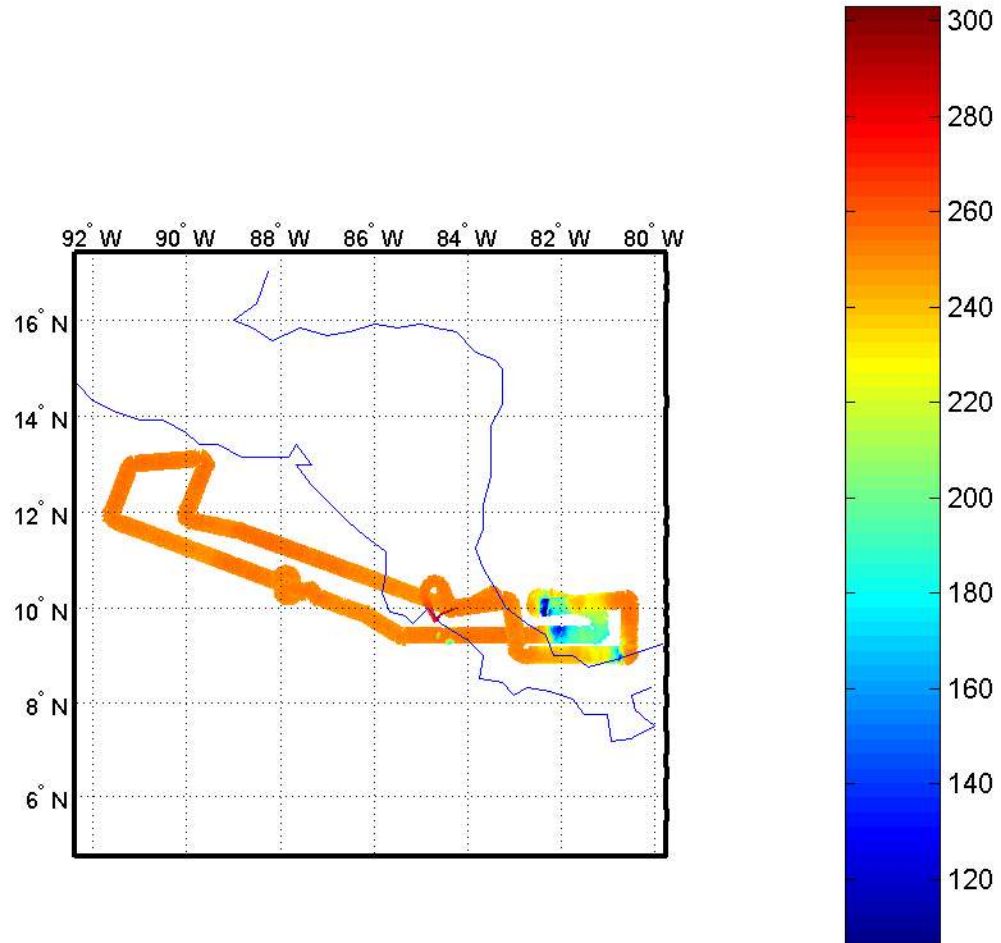




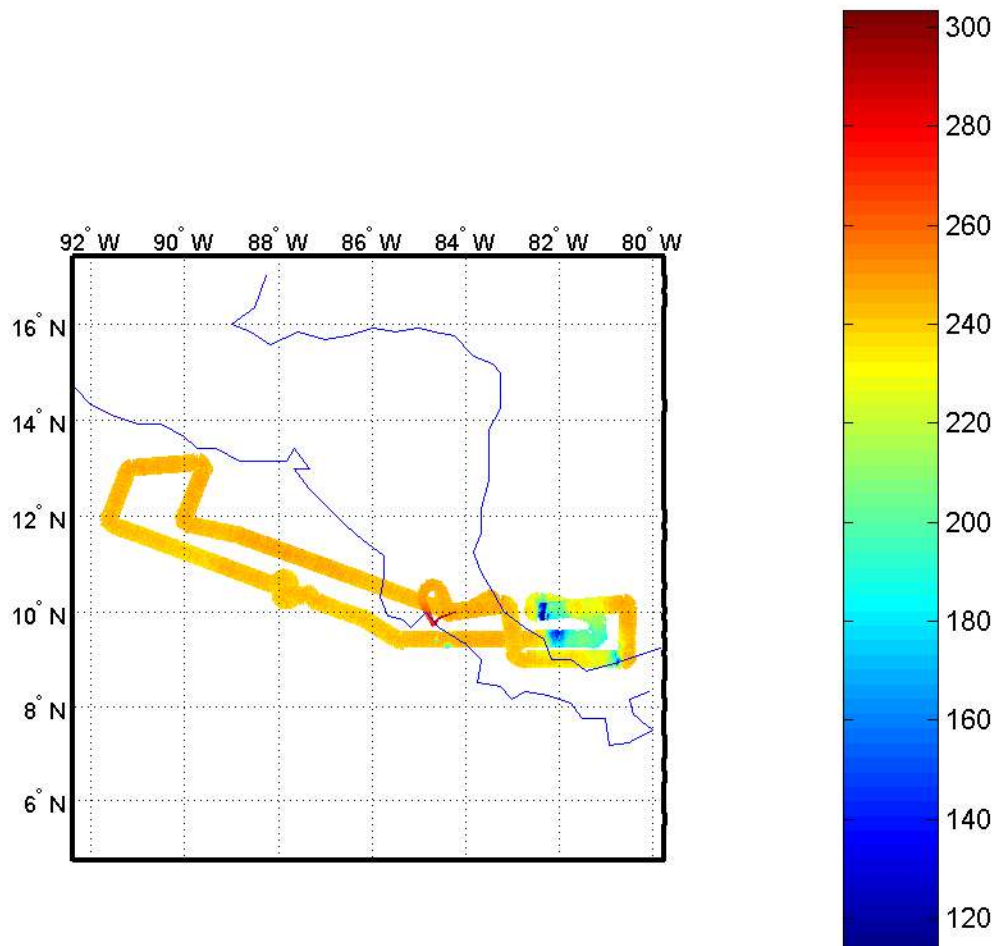
180.31/186.31 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29



181.51/185.11 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29

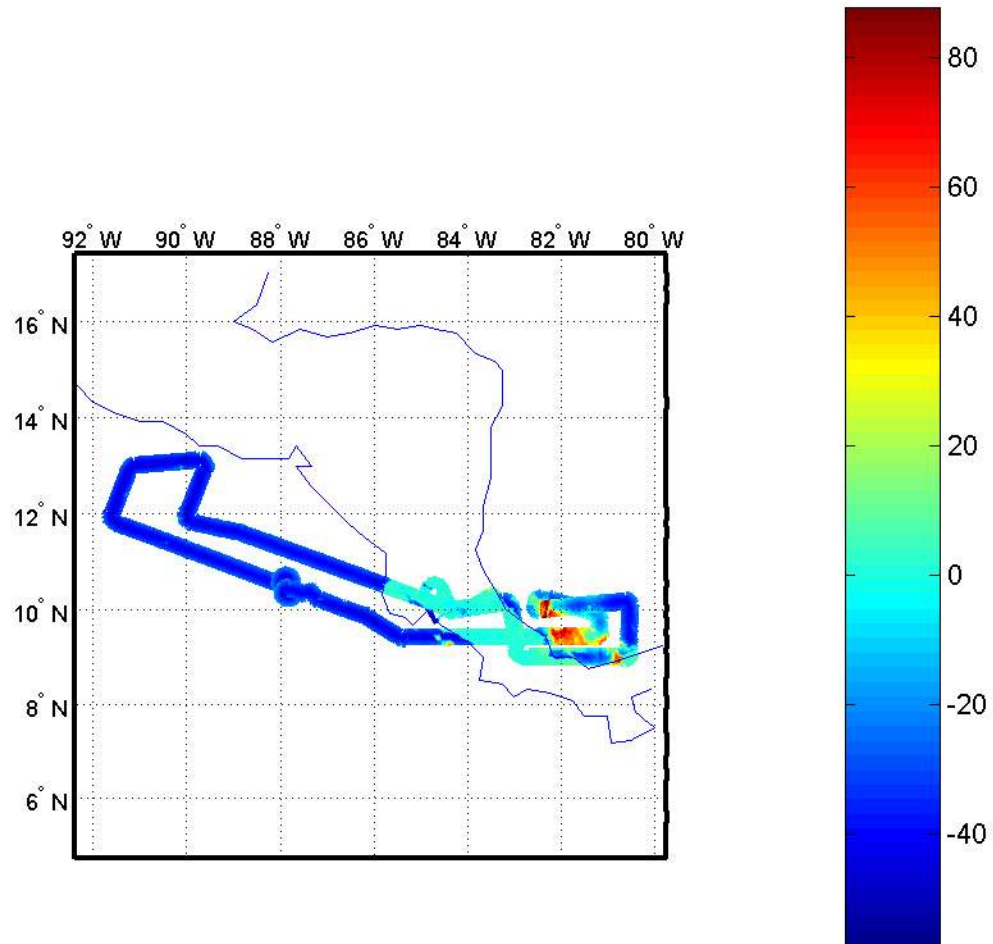


182.31/184.31 GHz brightness temperature  
27-Jul-2005 05:54:56 -- 11:40:29

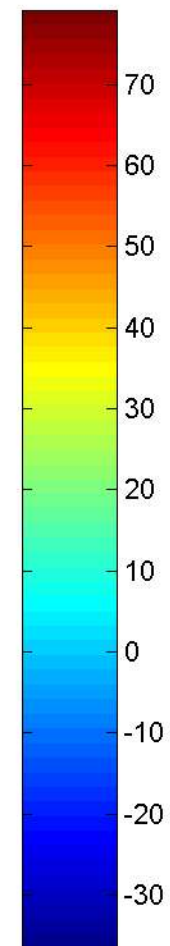
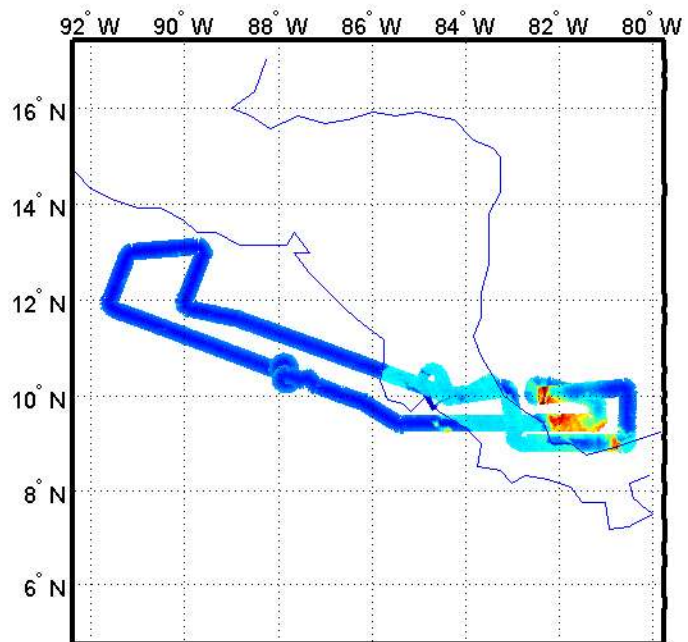


### III-b. Selected 55-118 GHz Radiometer Difference Maps

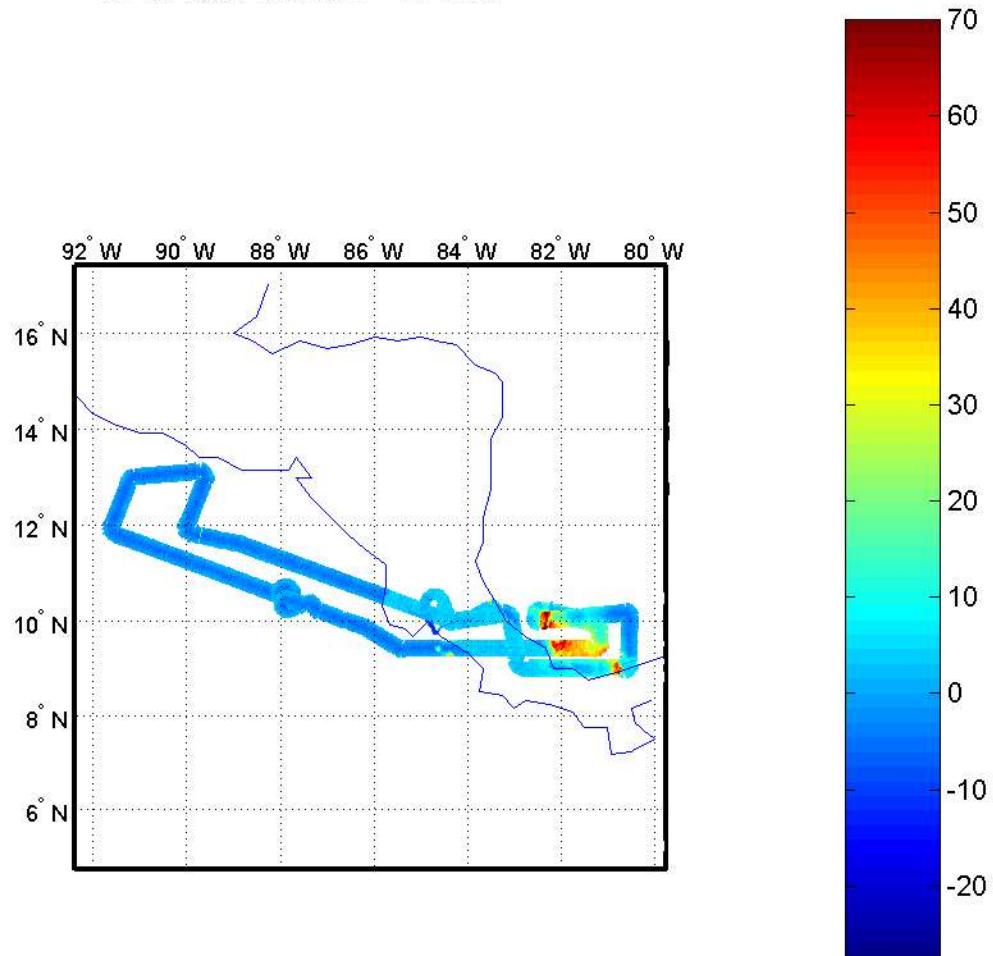
50.3-115.25 GHz brightness temperature difference(surface)  
27-Jul-2005 05:54:56 -- 11:40:29



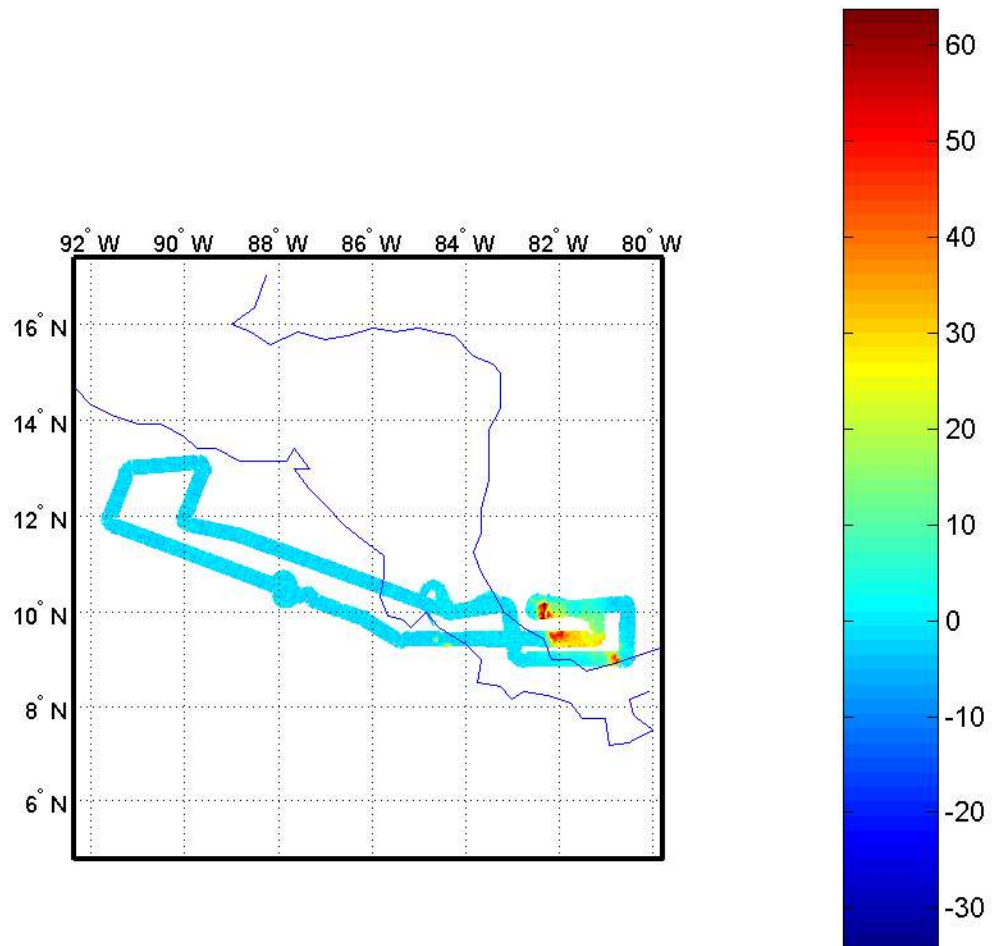
51.76-116.2 GHz brightness temperature difference(surface)  
27-Jul-2005 05:54:56 -- 11:40:29



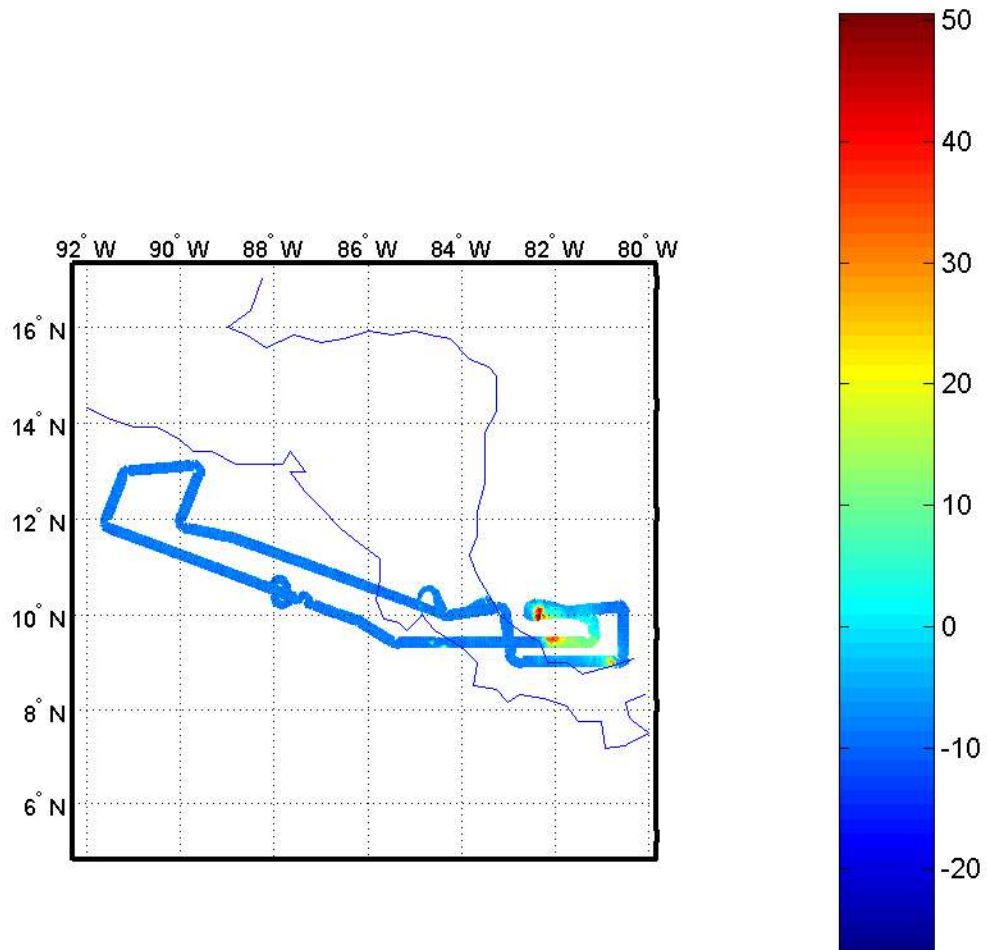
52.8-116.7 GHz brightness temperature difference(1000mB)  
27-Jul-2005 05:54:56 -- 11:40:29



53.596-117.15 GHz brightness temperature difference(750mB)  
27-Jul-2005 05:54:56 -- 11:40:29

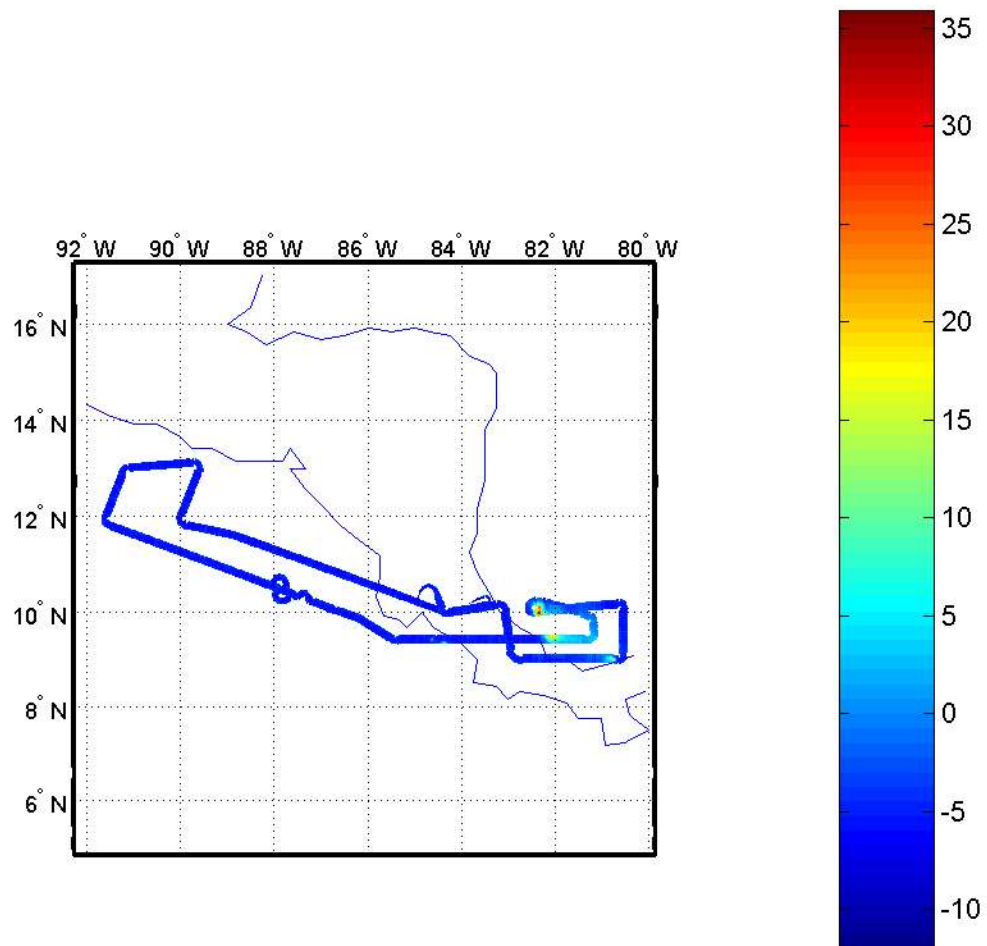


54.4-117.55 GHz brightness temperature difference(400mB)  
27-Jul-2005 05:54:56 -- 11:40:29

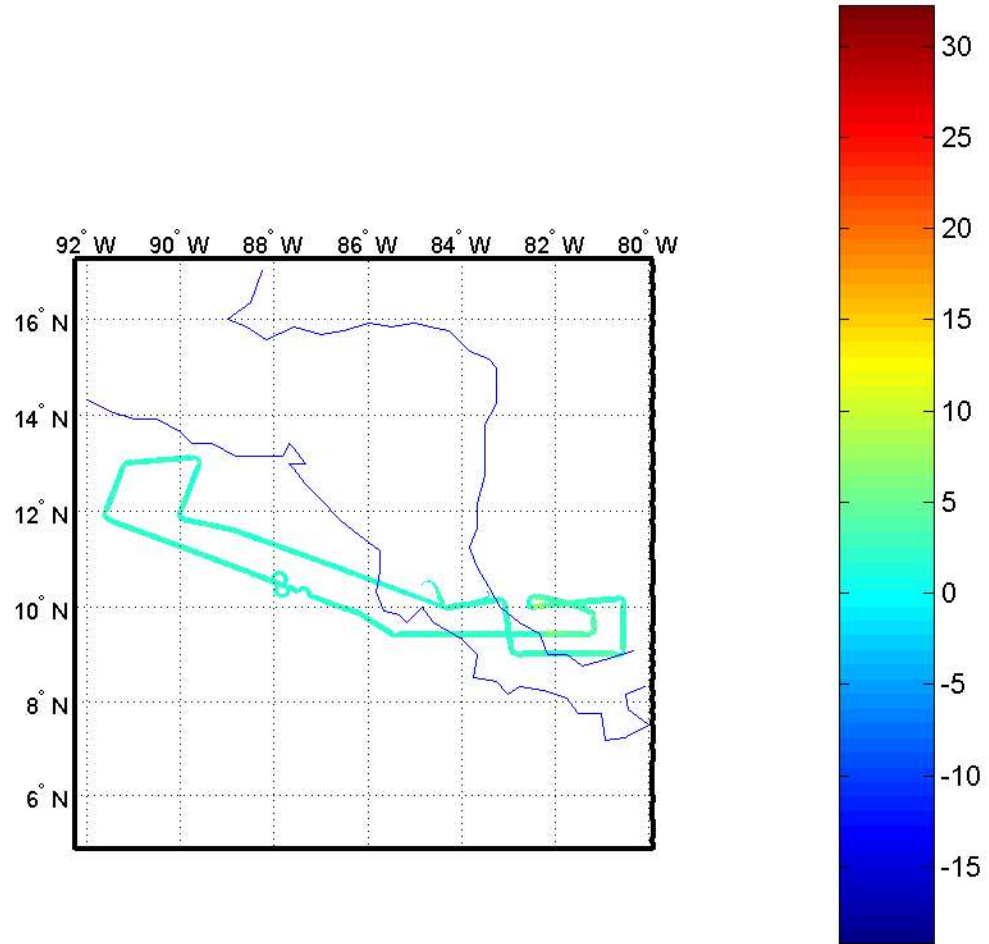




54.94-117.95/119.55 GHz brightness temperature difference(250mB)  
27-Jul-2005 05:54:56 -- 11:40:29



55.5-118.3/119.2 GHz brightness temperature difference(150mB)  
27-Jul-2005 05:54:56 -- 11:40:29



56.02/56.67-118.515/118.985 GHz brightness temperature difference(80mB)  
27-Jul-2005 05:54:56 -- 11:40:29

