

SAFARI 2000 MAS Flight 00154

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Flight #00-154

RBG Images

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Summary Information

Date: [August 31, 2000](#)

ER-2 Flight Number: [00-154](#)

Location: [Northern South Africa and Mozambique](#)

Principal Investigator: [Dr. Michael King \(NASA GSFC\)](#)

Flight Scientist: [Chris Moeller \(UW CIMSS\)](#)

Additional Sensors: [AirMISR](#), [CLS](#), [LAS](#), [MAS](#), [MOPITT-A](#), [S-HIS](#), [SSFR](#) (see [Instrument Status below](#))

Flight Track Map



[Click to enlarge](#)

Processing Information

Level-1B Data processed by:

Level-1B Data Version: [N/A](#)

Level-1B Configuration: [N/A](#)

Calibration Type: [N/A](#)

Calibration Version: [N/A](#)

Level-1B Browse Imagery

Straight Line Flight Tracks: [0 processed](#)

Scanlines Processed: [0](#)

Solar Azimuth and Zenith Angles ([N/A](#))

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(No Images)

ER-2 Flight Log

Author: [Chris Moeller](#)

Mission Scientist: [Chris Moeller](#)

ER-2 Pilot: [Ken Broda](#)

Takeoff: [31Aug2000 0000 UTC](#)

Landing: [31Aug2000 0000 UTC](#)

Duration: [01:50:00](#)

Objective:

Over fly ground based instrumentation (SPM, MPL) at Skukuza, map cirrus cloud to the south of Skukuza for MODIS cloud validation and optical properties with Terra overhead (0823 UTC overpass), map fires/scars and aerosol properties along 150 minute segment (~1800 km) transecting gyre in Gauteng sector up into Mozambique sector to Lake Tanganyika. Coordinate aerosol mapping with CV-580 and JRA in region between Limpopo and Rio Save rivers.

Key Flight Legs:

none

The AERONET sites were overflown during this mission:

- Skukuza (20°01.2'S, 31°29.8'E)

Pilot Report:

ER-2 climbed out to north and vectored east to align parallel to Terra orbital track (193° heading) for run over Skukuza and on southward towards coast. Before reaching Skukuza, MAS failure occurred and after repeated attempt to revive MAS, aborted the mission (0751 UTC). Other instruments collected about 30 minutes of data. Pilot reported clear over Skukuza and cirrus to south. CPL data review shows some cirrus was over

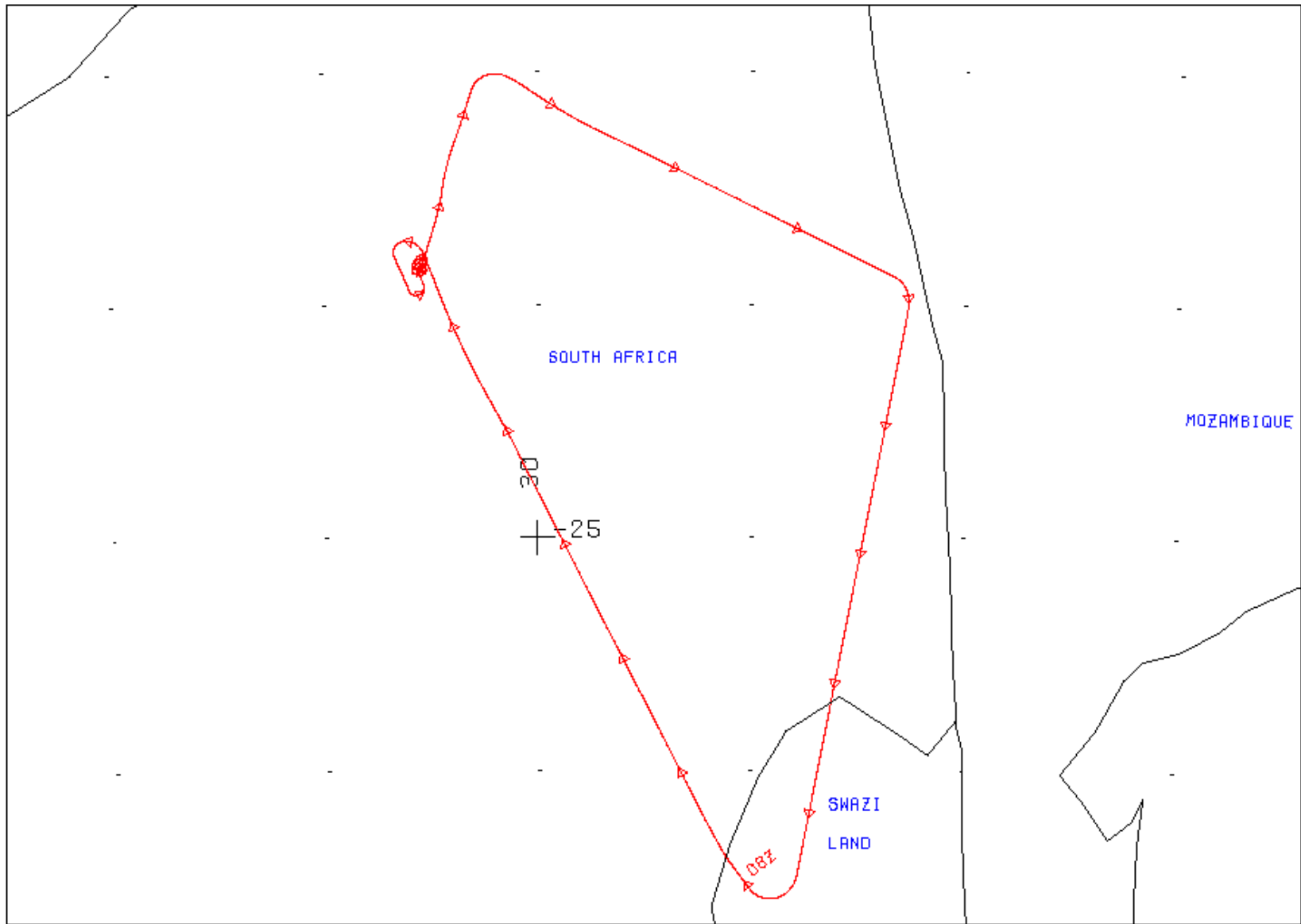
flown before the mission was aborted..

Meteorology:

An active cold front is causing further rainy weather at the Cape. A coastal low is on the Natal coast. A band of upper cirrus has spread northwards into Gauteng region ahead of the frontal systems to the south and lies over the central and eastern areas of South Africa. Partly cloudy to cloudy with upper level cirrus over the southern, central and eastern parts of South Africa. Fine elsewhere.

Instrument Status:

- AirMISR (Airborne Multi-angle Imaging Spectroradiometer): Not on plane; being repaired
- CLS (Cloud Lidar System): Lidar worked properly, but navigation data not recorded
- LAS (Leonardo Airborne Simulator): No Data
- MAS (MODIS Airborne Simulator): failed at 5 minutes after turn on
- MOPITT-A (MOPITT Airborne Simulator): Worked well
- S-HIS (High-resolution Interferometer Sounder): Worked well; nadir mode
- SSFR (Solar Spectral Flux Radiometer): Worked well



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