

SAFARI 2000 MAS Flight 00177

The SAFARI 2000 MAS contains 146 GB of data. Individual HDF files may exceed the size of a CD, and are best written to DVD. You may use this automated interface to order data from selected tracks (flight segments). If you require large portions of this data, we recommend that you contact us by email or phone and make special arrangements.

Flight #00-177

RBG Images

[Click Image](#)

Track #01



R:2.15 microns
G:0.91 microns
B:0.55 microns

Track #14

Summary Information

Date: **September 17, 2000**

ER-2 Flight Number: **00-177**

Location: **South Africa, Botswana and Namibia**

Principal Investigator: **Dr. Michael King (NASA GSFC)**

Flight Scientist: **Steve Platnick (NASA GSFC)**

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

Processing Information

Level-1B Data processed by: **Ames Research Center**

Level-1B Data Version: **#2**

Level-1B Configuration: ([sample file](#))

Calibration Type: **Final**

Calibration Version: **1.0**

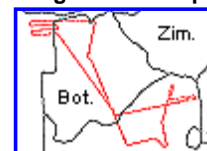
Level-1B Browse Imagery

Straight Line Flight Tracks: **18 processed**

Scanlines Processed: **113295**

[Solar Azimuth and Zenith Angles](#)

Flight Track Map



[Click to enlarge](#)

Browse Images

Click on the Flight Track number to see track images.
Click on the Check Box to list HDF files prior to adding to shopping cart.
Lat/Lon ranges are for the BEG-END scanline nadir pixels.

List	Flight Track	Time_Span (GMT)	Heading (Deg)	Lat_Range (Deg_S)	Lon_Range (Deg_E)	Length (Scanlines)	Altitude (m)
	01	06:58-07:07	197	24.38-25.39	29.20-28.94	3309	18727
	02	07:07-07:22	168	25.45-27.00	28.93-29.33	5271	19310
	03	07:24-07:27	312	27.13-26.96	29.14-28.92	867	19508
	04	07:27-07:31	315	26.94-26.59	28.90-28.51	1690	19563
	05	07:32-07:49	260	26.57-27.03	28.40-26.34	6369	19566
	06	07:51-08:07	337	26.96-25.30	26.21-25.41	6163	19663
	07	08:20-08:47	339	24.18-21.36	24.89-23.65	9999	19696
	08	08:52-09:13	13	20.93-18.62	23.30-23.85	7825	19988
	09	09:15-09:41	271	18.47-18.39	23.73-20.51	9999	20099
	10	09:41-09:51	271	18.39-18.39	20.51-19.27	3725	20189
	11	09:56-10:11	91	18.69-18.69	19.25-21.00	5902	20240
	12	10:15-10:29	272	18.99-18.99	21.01-19.29	5160	20299
	13	10:33-10:48	90	19.29-19.29	19.26-21.00	5709	20398
	14	10:49-11:16	145	19.36-21.76	21.16-22.93	9999	20531
	15	11:16-11:43	145	21.76-24.17	22.93-24.77	9999	20435



R:2.15 microns
G:0.91 microns
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16	11:43-11:49	150	24.17-24.74	24.77-25.17	2311	20318
17	11:52-12:19	80	24.97-24.36	25.45-28.53	9999	19921
18	12:19-12:43	78	24.36-23.75	28.53-31.30	8999	19683
All images in sequence						

ER-2 Flight Log

Author: [Steve Platnick](#)
Mission Scientist: [Dr. Michael King](#)
ER-2 Pilot: [Dave Wright](#)
Takeoff: [17Sep2000 0000 UTC](#)
Landing: [17Sep2000 0000 UTC](#)
Duration: [07:45:00](#)

Objective:

(1) Overfly Maun tower site and recently repaired AERONET sun photometer in conjunction with Terra overpass, (2) Overfly large burn scare and possibly active fire in northeast Namibia first observed by SAWB Aerocommander JRA several days before, (3) Overfly powerplants east of Johannesburg (Witbank, Secunda and Tutuka), (4) Overfly industrial sites south of Johannesburg along with the Vredefort dome (ancient impact crater site), (5) Overfly Thabazimibia-Murchinson Lineament.

SAWB JRA worked the burn scar in northeast Namibia. The UK C-130 (based in Windhoek, Namibia) made its final SAFARI flight on Saturday 16 September. The CV-580 (based in Walvis Bay, Namibia) canceled remaining SAFARI flights due to aircraft mechanical problems.

The ER-2 flight track over Maun, Botswana was oriented parallel to Terra and at the same time as the 0904 UTC overpass. The Terra ground track was approximately 160 km west of Maun (14 degree viewing angle). The flight legs over the power plants and industrial sites was reported by the pilot to be approximately 80% cloud cover. Other legs were in clear sky.

Key Flight Legs:

No comments (See flight objectives)

Highlights: Overpasses of Maun Tower with working sun photometer, large burn scar in northeast Namibia coordinated with JRA, Thabazimibia-Murchinson Lineament.

Surface sites and features overflown during this mission:

- Maun Tower, Botswana (19°53'S, 23°33'E).
- Thabazimibia-Murchinson Lineament, RSA (24°53.7'S, 25°52.9'E to 23°45'S, 31°18'E).
- Vredefort Dome, RSA (26°50'S, 27°20'E).

Pilot Report:

N/A

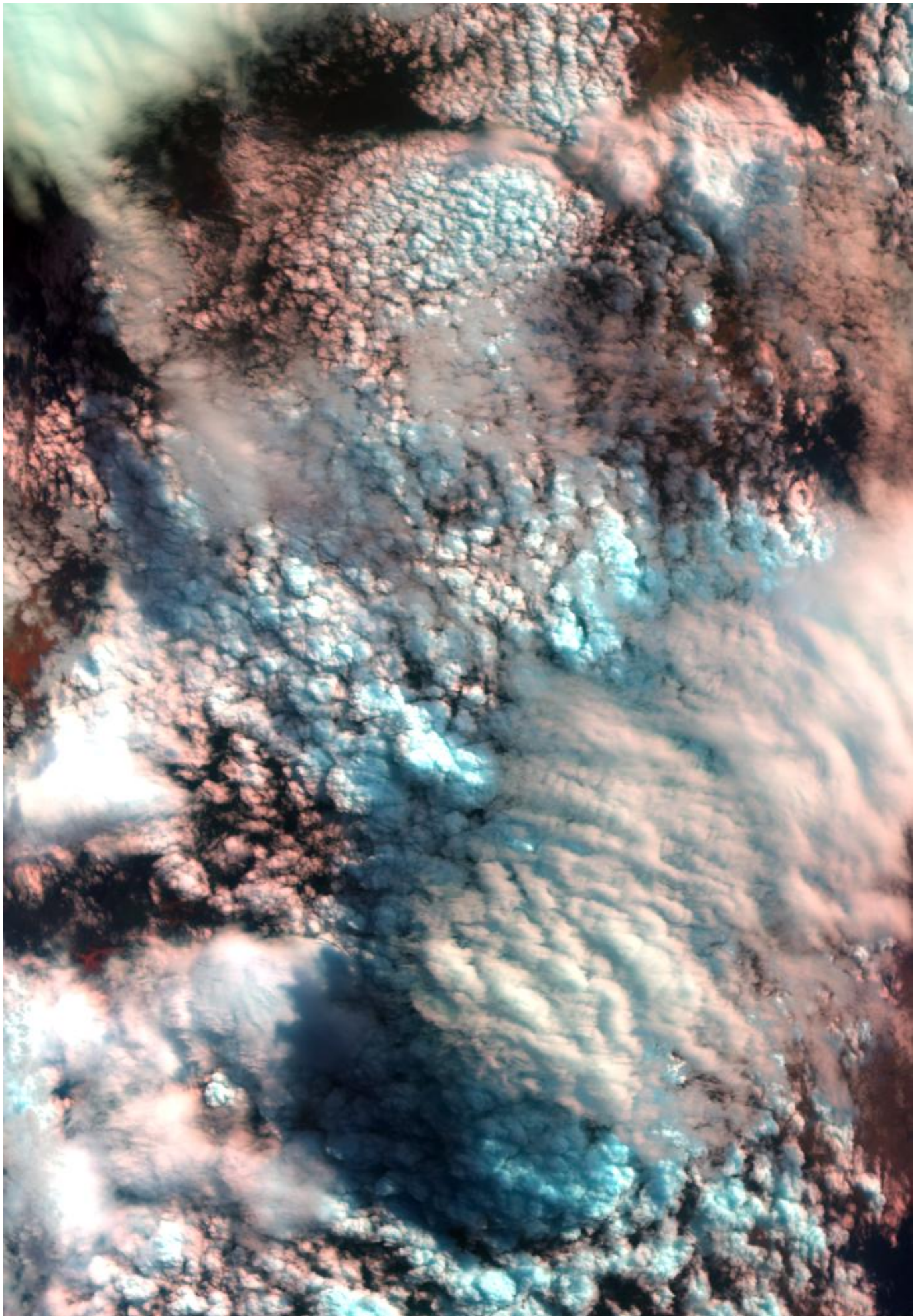
Meteorology:

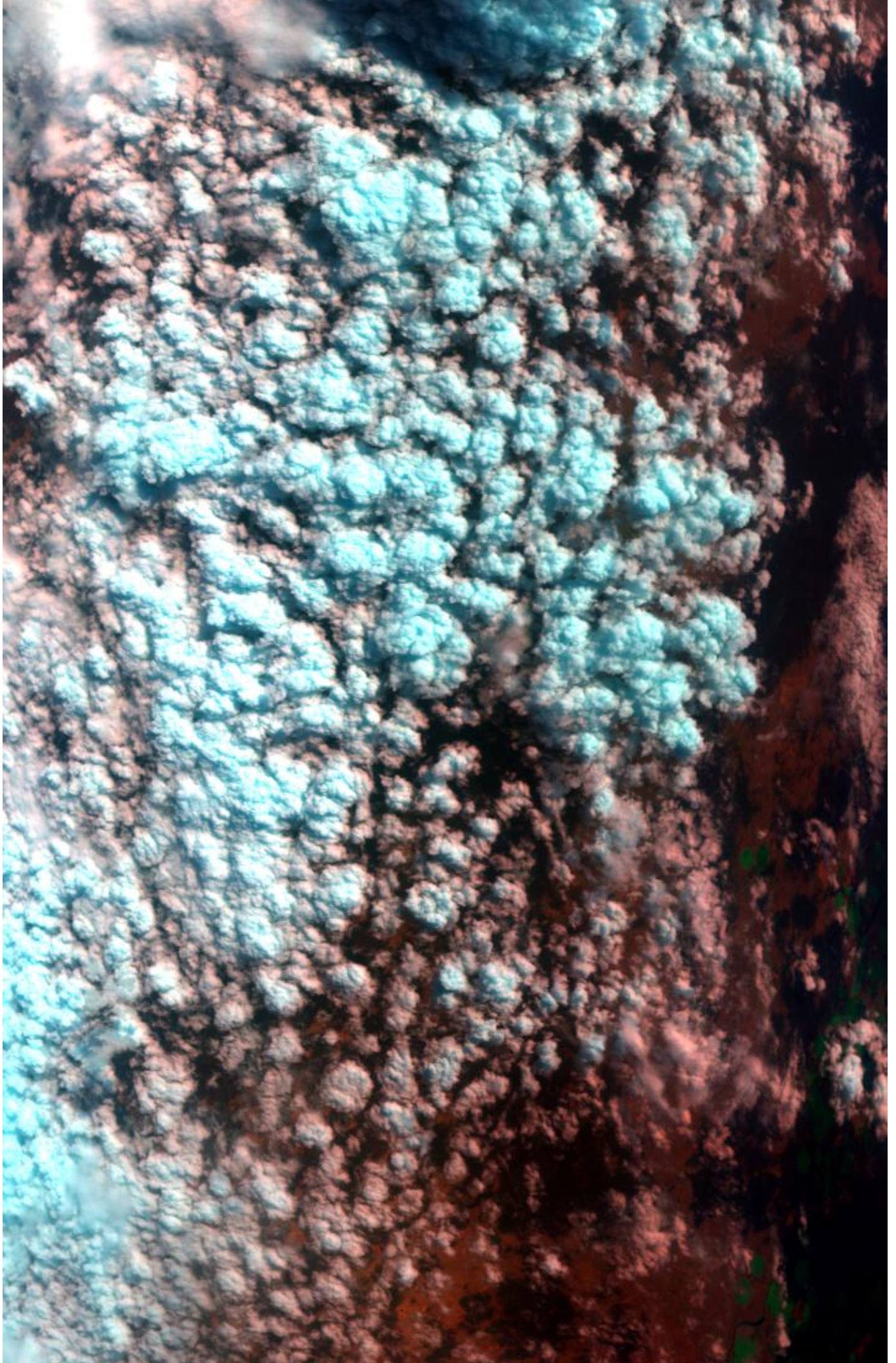
A cold front runs from the Orange River mouth to Port Elizabeth and southeastwards, with a low off the Transkei coast. A trough/cutoff low has weakened and moved to the central interior, with a new trough developing to the west of South Africa. Middle level moisture ahead of the trough is diminishing significantly over the northern regions, where isolated thundershowers are likely, but more extensive over the southern areas. Fine weather over Namibia and western Botswana otherwise partly cloudy, but cloudy in the south. Showers are expected along the southern coastal areas, while scattered thundershowers are likely over the southeastern areas of South Africa becoming more isolated over the remainder of the eastern parts, except in the extreme north.

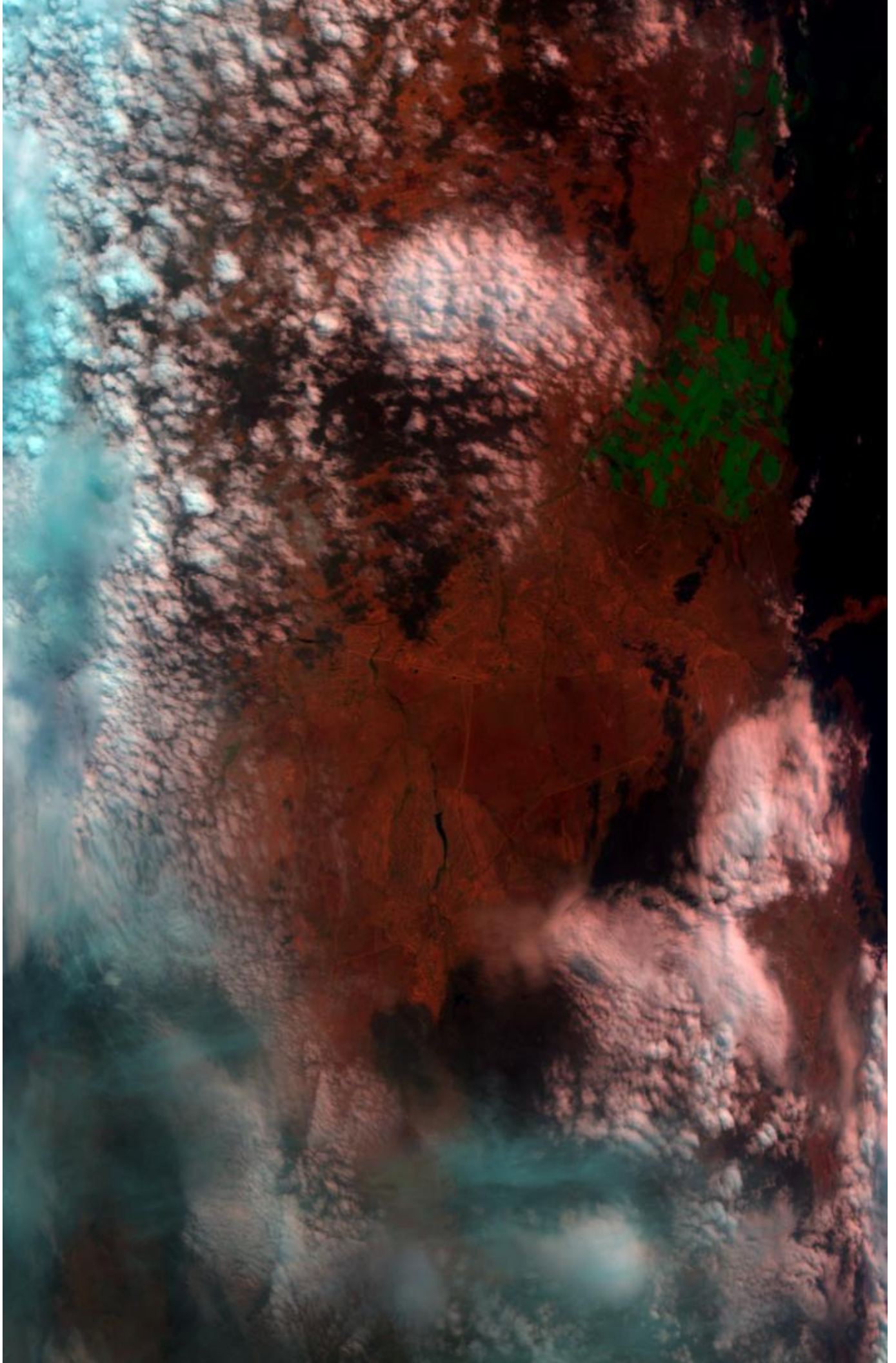
Instrument Status:

- AirMISR (Airborne Multi-angle Imaging Spectroradiometer): not on aircraft
- CLS (Cloud Lidar System): Lidar worked properly, but navigation data not recorded
- LAS (Leonardo Airborne Simulator): not on aircraft

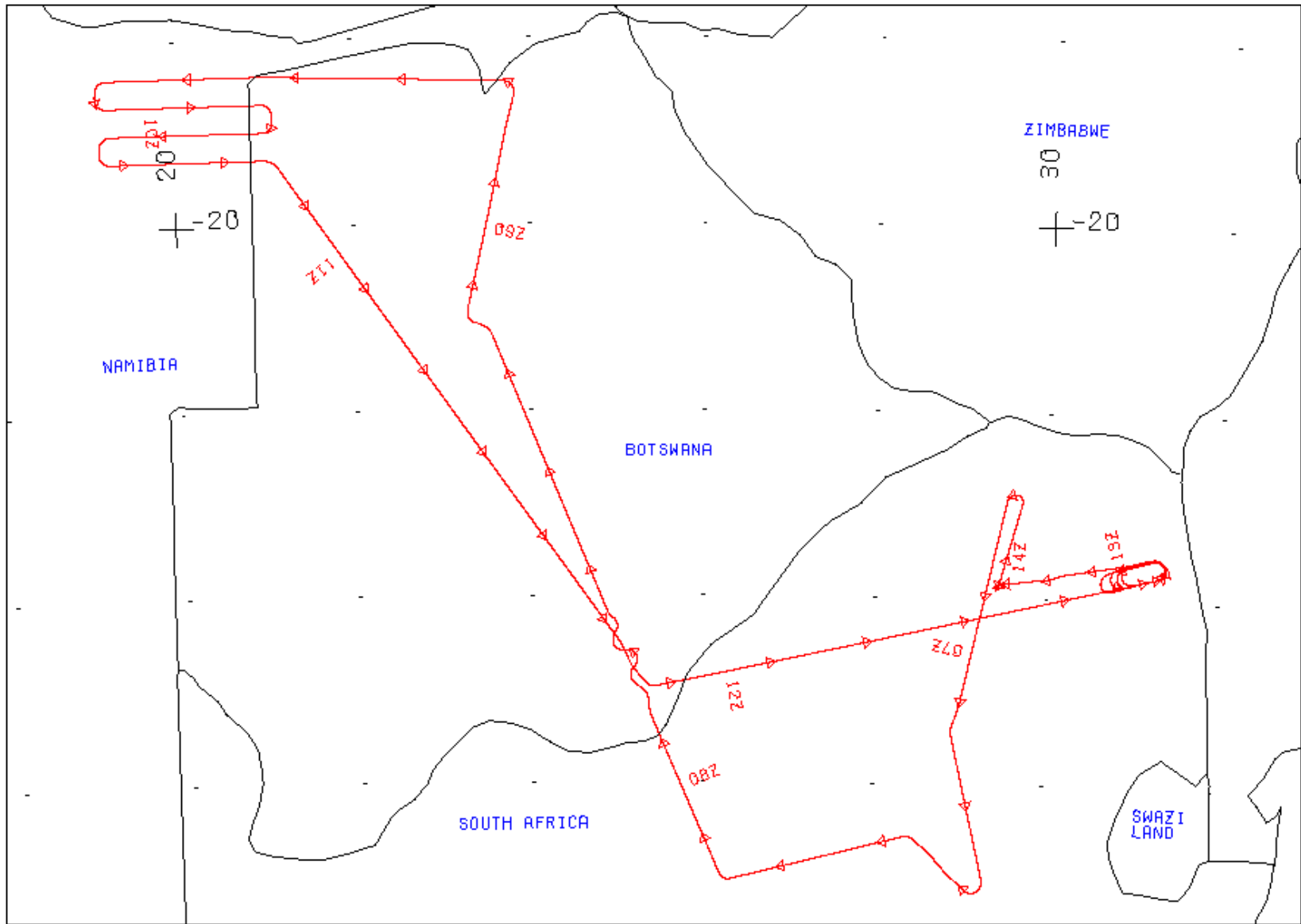
- MAS (MODIS Airborne Simulator): worked well
- MOPITT-A (MOPITT Airborne Simulator): Worked well
- S-HIS (High-resolution Interferometer Sounder): operated in scanning mode
- SSFR (Solar Spectral Flux Radiometer): Worked well
- RC-10 (Tracking Camera): Worked well











FLIGHT 00-177

17 SEPTEMBER 2000

A/C 809

SAFARI

FLIGHT 00-177

17 SPETEMBER 2000

A/C 809

SAFARI

50 MAS Configuration for 00-177 17 Sep 2000 Namibia and Botswana

01	01	16	0	0.040412	0.0000	0.452	0.472	0.493	0.100	1981.92
02	02	16	0	0.043044	0.0000	0.534	0.554	0.577	0.100	1857.88
03	03	16	0	0.028893	0.0000	0.635	0.658	0.689	0.100	1549.55
04	04	16	0	0.033712	0.0000	0.687	0.708	0.731	0.100	1386.41
05	05	16	0	0.025603	0.0000	0.729	0.750	0.773	0.100	1260.07
06	06	16	0	0.026290	0.0000	0.810	0.830	0.855	0.100	1053.65
07	07	16	0	0.026167	0.0000	0.853	0.874	0.895	0.100	962.82
08	08	16	0	0.021054	0.0000	0.893	0.912	0.934	0.100	869.28
09	09	16	0	0.022825	0.0000	0.933	0.954	0.974	0.100	784.92
10	10	16	0	0.003609	0.0000	1.586	1.612	1.640	0.100	244.16
11	11	16	0	0.006717	0.0000	1.642	1.668	1.695	0.010	227.32
12	12	16	0	0.003177	0.0000	1.698	1.722	1.749	0.010	201.29
13	13	16	0	0.003142	0.0000	1.751	1.776	1.801	0.010	176.56
14	14	16	0	0.003230	0.0000	1.805	1.830	1.855	0.010	156.28
15	15	16	0	0.003085	0.0000	1.855	1.880	1.906	0.010	139.66
16	16	16	0	0.002925	0.0000	1.906	1.932	1.956	0.100	131.21
17	17	16	0	0.002653	0.0000	1.956	1.982	2.006	0.010	122.76
18	18	16	0	0.002590	0.0000	2.006	2.032	2.057	0.010	109.78
19	19	16	0	0.002497	0.0000	2.058	2.082	2.107	0.010	98.67
20	20	16	0	0.002533	0.0000	2.107	2.132	2.157	0.010	86.28
21	21	16	0	0.005320	0.0000	2.156	2.180	2.205	0.010	76.85
22	22	16	0	0.002886	0.0000	2.205	2.230	2.255	0.010	73.57
23	23	16	0	0.002953	0.0000	2.255	2.280	2.305	0.010	68.38
24	24	16	0	0.002757	0.0000	2.306	2.330	2.354	0.010	58.53
25	25	16	0	0.002683	0.0000	2.355	2.380	2.404	0.010	57.88
26	26	16	1	0.956000	0.0000	3.105	3.180	3.261	0.001	20.15
27	27	16	1	0.960000	0.0000	3.250	3.325	3.401	0.001	17.66
28	28	16	1	0.961000	0.0000	3.405	3.475	3.559	0.001	15.05
29	29	16	1	0.949000	0.0000	3.556	3.640	3.718	0.001	13.06
30	30	16	1	0.945000	0.0000	3.702	3.770	3.847	0.001	11.39
31	31	16	1	0.942000	0.0000	3.857	3.940	4.023	0.001	9.98
32	32	16	1	0.940000	0.0000	4.014	4.095	4.183	0.001	8.69
33	33	16	1	0.939000	0.0000	4.138	4.210	4.291	0.001	7.73
34	34	16	1	0.938000	0.0000	4.288	4.360	4.441	0.001	6.71
35	35	16	1	0.935000	0.0000	4.471	4.550	4.632	0.001	5.63
36	36	16	1	0.934000	0.0000	4.622	4.700	4.784	0.001	4.87
37	37	16	1	0.933000	0.0000	4.773	4.860	4.937	0.001	4.28

38	38	16	1	0.932000	0.0000	4.917	4.990	5.084	0.001	3.80
39	39	16	1	0.931000	0.0000	5.055	5.165	5.235	0.001	3.39
40	40	16	1	0.930000	0.0000	5.215	5.315	5.371	0.001	3.03
41	41	16	1	0.932000	0.0000	5.342	5.380	5.421	0.001	2.80
42	42	16	1	0.966000	0.0000	8.330	8.564	8.759	0.010	0.45
43	43	16	1	0.963000	0.0000	9.436	9.665	9.928	0.010	0.28
44	44	16	1	0.960000	0.0000	10.218	10.474	10.711	0.010	0.20
45	45	16	1	0.957000	0.0000	10.694	10.943	11.209	0.010	0.17
46	46	16	1	0.947000	0.0000	11.684	11.953	12.208	0.010	0.12
47	47	16	1	0.943000	0.0000	12.583	12.803	13.035	0.010	0.09
48	48	16	1	0.948000	0.0000	12.939	13.193	13.446	0.010	0.08
49	49	16	1	0.939000	0.0000	13.425	13.712	14.035	0.010	0.07
50	50	16	1	0.944000	0.0000	13.953	14.193	14.403	0.010	0.06

| | | | | | | | | |
| | | | | | | | | | =(!)
| | | | | | | | | =-Scale Factor
| | | | | | | | =- Right 50% spectral response
| | | | | | | =-Peak 100% spectral response (microns)
| | | | | | =-Left 50% spectral response (microns)
| | | | | =-Calibration intercept (only used for visible bands)
| | | | | =-----Calibration slope (only used for visible bands 1-25)
| | | | Blackbody emmissivity (only used for IR bands 26-50)
| | | =-----0 => visible band, 1 => thermal infrared band"
| | =-----Number of bits in this channel (8 or 10)
| =-----Spectral band assigned to this channel
=----- Channel number
(!) Sensor weighted solar spectral irradiance (Watts/meter²/micron)
at mean Earth-Sun distance

NOTE: Factor in column 10 is used to scale radiances in
calibrated data by the following method:
value_stored = int(radiance / factor) for each channel

Title	MODIS Airborne Simulator (MAS) Level-1B Data
Sensor_ID_Code	M5 105 MAS50
ExperimentName	SAFARI 2000
AircraftPlatform	NASA ER-2 (809)
NavFormatCode	Format (A-1)

LocationCode	Inertial (INU)
AltitudeCode	Inertial (INU)
CalibrationVersion	Version 1.0 Calibration
CalibrationName	SAFARI_Jul19-Oct19
SRF_Dataset	/rarray/calibrat/mas/srf/Oct_00/
SRF_FTP	ftp://asapdata/mas/srf/Oct_00/
NavDataSource	ER2 navigation recorder
NavDataPath	/nav/2000/er2/00-177
TbackBand	45, 47, 31, 273.0
GranuleVersion	1.0.0
MetadataVersion	1.0.0

 Conversion from counts to radiance in VIS and NIR channels is
 $rad = (count - (cbb_avg)) * slope$

"where,"

rad = radiance

cbb_avg = cold black body counts (running average)

slope = from column 7 in above table

count = count value

IR Emissivity Correction (for MAS-50)

From Chris Moeller (UWisc)

This is done in 2 steps:

1. Get the (TBACK Band) scan head count and convert it to a brightness temperature
2. Use the scan head temperature and the cold and warm black body counts/temperatures for computing the corrected slope and intercept for all IR bands.

(note: set to 1.0 for channels 1-25)

MAS BB Emissivity Coefficients

Hemispherical Reflectance (JPL) 11/00

convolved with MAS SRF (ARC) 10/00

Red spot Paint

Values in form Wavelength, Emissivity

For Bands 26 thru 50:

0.95600, 0.96000, 0.96100, 0.94900, 0.94500,
0.94200, 0.94000, 0.93900, 0.93800, 0.93500,
0.93400, 0.93300, 0.93200, 0.93100, 0.93000,
0.93200, 0.96600, 0.96300, 0.96000, 0.95700,
0.94700, 0.94300, 0.94800, 0.93900, 0.94400,

Config.asc creation date = 13-June-2001

Config.asc creation date = 13-June-2001

MODIS AIRBORNE SIMULATOR (MAS) FLIGHT LINE
 INFORMATION FOR 17 Sep 2000
 NASA FLIGHT NUMBER 00-177

LINE	START OF FLIGHT LINE FLIGHT DATA					END OF FLIGHT			
	TIME	LAT	LON	SOLAR		TIME	LAT	LON	
	SOLAR HH:MM:SS	SCAN DEG	HEAD DEG	ALT ZEN	AZIM M (GPS)		HH:MM:SS DEG		DEG
1	06:58:35	-24.375	29.205	50.8	65.1	07:07:26	-25.385	28.936	49.6
62.9	3309	197.1	18727						
2	07:07:58	-25.446	28.931	49.6	62.7	07:22:05	-27.004	29.334	47.3
58.2	5271	168.2	19310						
3	07:24:41	-27.128	29.139	47.0	57.7	07:27:00	-26.960	28.924	46.6
57.6	867	311.7	19508						
4	07:27:15	-26.940	28.903	46.6	57.5	07:31:47	-26.594	28.511	45.8
57.1	1690	315.1	19563						
5	07:32:46	-26.566	28.397	45.7	57.0	07:49:49	-27.035	26.345	44.3
54.5	6369	259.5	19566						
6	07:51:15	-26.963	26.206	44.1	54.4	08:07:45	-25.295	25.407	40.7
52.4	6163	337.3	19663						
7	08:20:32	-24.177	24.894	38.1	50.5	08:47:18	-21.360	23.648	32.5
46.7	9999	338.5	19696						
8	08:52:25	-20.927	23.303	31.6	45.9	09:13:22	-18.620	23.847	26.2
39.6	7825	13.1	19988						
9	09:15:13	-18.471	23.730	25.8	39.1	09:41:59	-18.391	20.507	23.8
32.4	9999	271.2	20099						
10	09:41:59	-18.391	20.507	23.8	32.4	09:51:58	-18.389	19.275	23.2
29.6	3725	270.9	20189						
11	09:56:03	-18.689	19.255	23.0	27.0	10:11:51	-18.691	21.004	21.2
12.7	5902	90.9	20240						
12	10:15:35	-18.990	21.006	21.3	10.0	10:29:24	-18.990	19.294	21.1

5.2	5160	271.5	20299						
13	10:33:08	-19.288	19.260	21.3	2.7	10:48:25	-19.290	21.005	21.8
347.5	5709	89.6	20398						
14	10:49:56	-19.356	21.161	22.0	346.2	11:16:42	-21.761	22.929	27.2
329.1	9999	145.3	20531						
15	11:16:43	-21.762	22.929	27.2	329.1	11:43:29	-24.166	24.775	33.9
317.5	9999	145.1	20435						
16	11:43:29	-24.167	24.775	33.9	317.5	11:49:40	-24.741	25.167	35.5
315.4	2311	149.5	20318						
17	11:52:59	-24.973	25.446	36.4	314.2	12:19:45	-24.363	28.526	43.0
302.8	9999	79.7	19921						
18	12:19:45	-24.363	28.527	43.0	302.8	12:43:50	-23.749	31.303	49.7
295.0	8999	78.3	19683						

NUMBER OF FILES FOR THIS FLIGHT = 18
 TOTAL NUMBER OF SCAN LINES = 113295
 DATE THESE FILES WERE PROCESSED = 25-Jul-2002
 DATE THIS LIST WAS CREATED = Thu Jul 25 18:25:18

PDT 2002

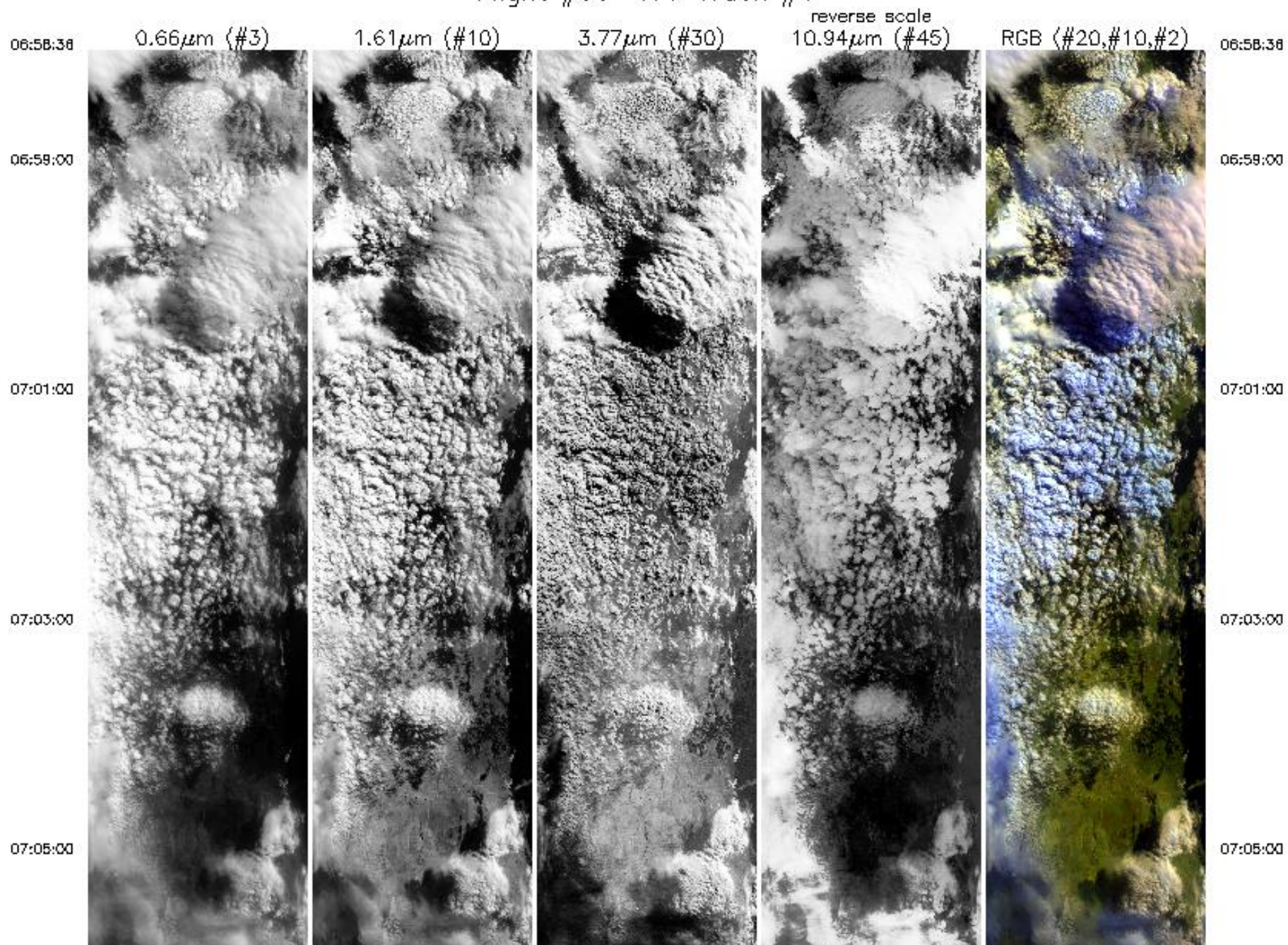
GRANULE VERSION = 1

GLOBAL ATTRIBUTES

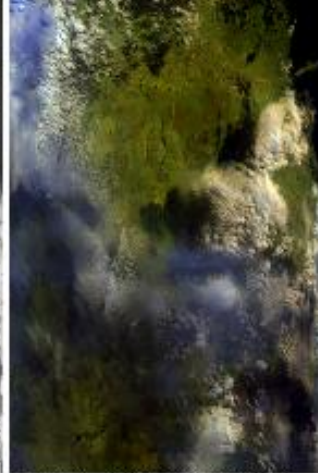
Attribute Name	Description
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CreationDate	25-Jul-2002 14:25:52
AircraftPlatform	NASA ER-2 (809)
NavFormatCode	Format (A-1)
LocationCode	Inertial (INU)
AltitudeCode	Inertial (INU)
NavDataSource	ER2 navigation recorder
NavDataPath	/nav/2000/er2/00-177
CalibrationName	SAFARI_Jul19-Oct19
Reference	NCSA HDF Reference Manual, Version 4.1r4, 2000

title	MODIS Airborne Simulator (MAS) Level-1B Data
ExperimentName	SAFARI 2000
FlightNumber	00-177
FlightDate	17 Sep 2000
SiteLineRun	void
GeographicArea	South Africa
SRF_FTP	ftp://asapdata/mas/srf/Oct_00/
SRF_dataset	/rarray/calibrat/mas/srf/Oct_00/
FlightLineNumber	1
TotalFlightLines	18
DataUsersGuideSource	http://ltpwww.gsfc.nasa.gov/MAS/
SoftwareVersion	Level-1b Version 10.1.1 UR
CalibrationVersion	Version 1.0 Calibration
data_set	MAS SAFARI 2000
day_night_flag	D
granule_version	1
metadata_version	1.0.0
data_quality	Good
Other_Aircraft_Sensors	AirMISR, CLS, MOPPIT-A, Leonardo, RC-10
Principal_Investigator	King
lat_UL	-24.34169
lon_UL	29.04251
lat_UR	-24.40916
lon_UR	29.36556
lat_LL	-25.33069
lon_LL	28.77215
lat_LR	-25.44510
lon_LR	29.09655
begin_date	20000916 065836
end_date	20000916 070727
RunTime	233,750 ms, or 70 ms/scanline
CompletionDate	25-Jul-2002 14:32:01
producer_granule_id	
MASL1B_00177_01_20000916_0658_0707_V01.hdf	

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #1



07:05:00



07:05:00

07:07:29

0.66 μm (#3)

1.61 μm (#10)

3.77 μm (#30)

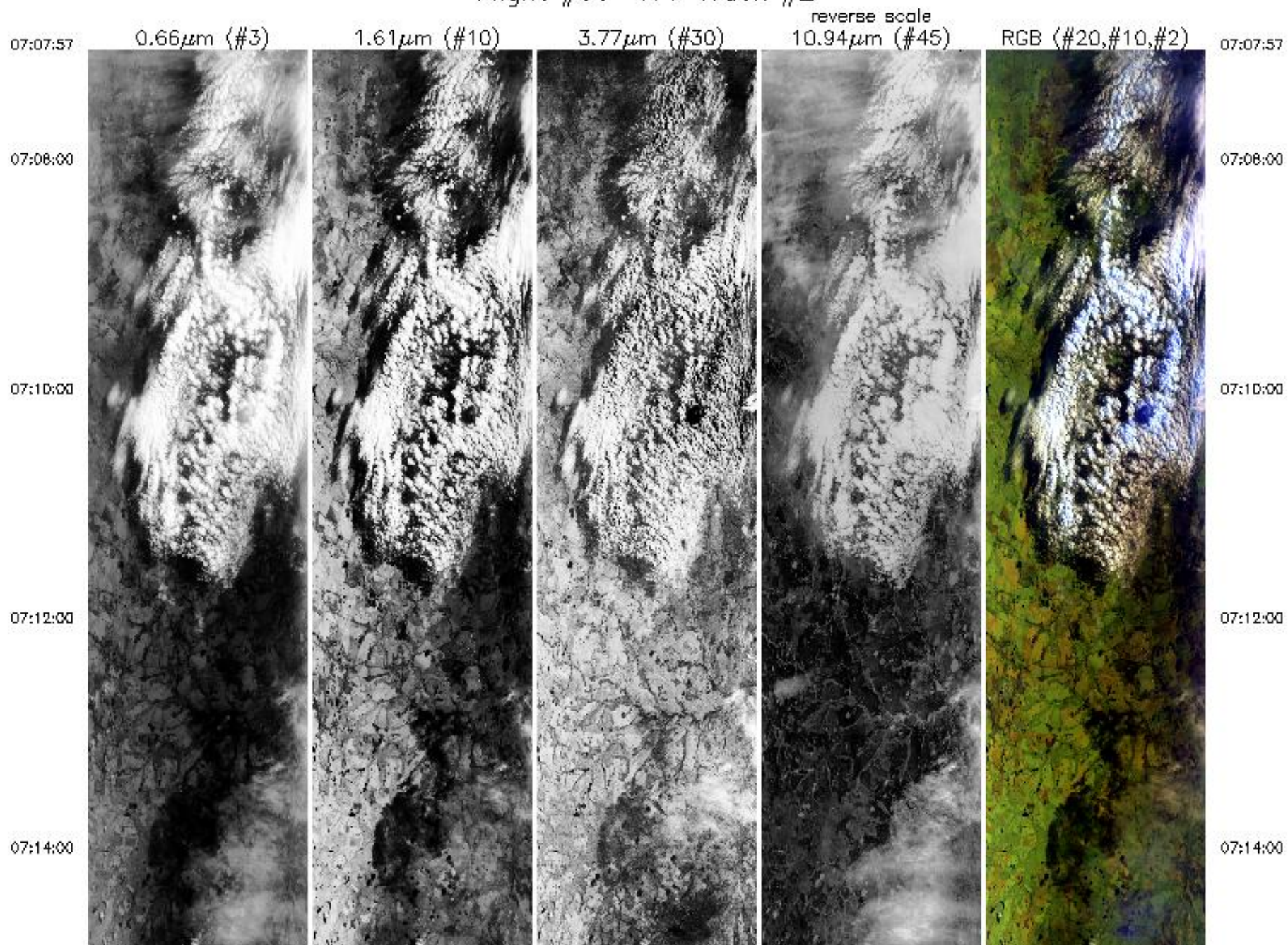
10.94 μm (#45)
reverse scale

RGB (#20,#10,#2)

07:07:29

Aircraft Heading = 192.9°
Solar Zenith = 77.6°
GPS Altitude = 18743. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #2



07:14:00

07:16:00

07:18:00

07:20:00

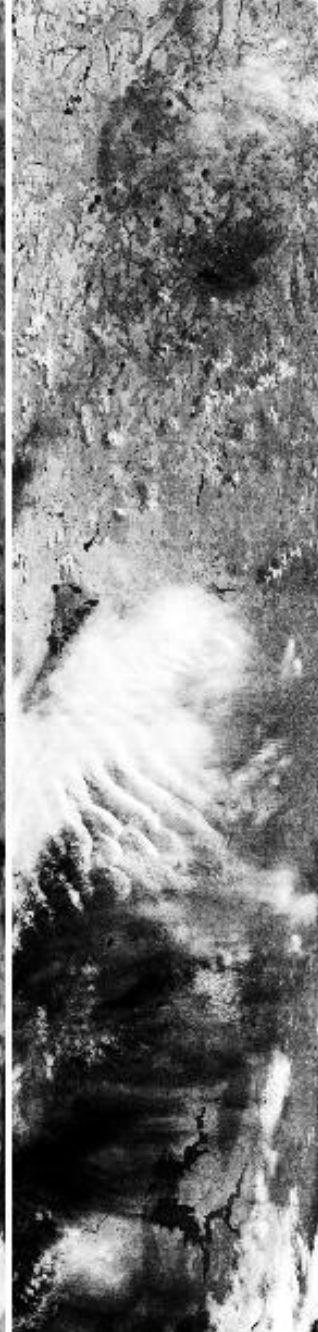
07:22:08



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20,#10,#2)

07:14:00

07:16:00

07:18:00

07:20:00

07:22:08

Aircraft Heading = 170.2°
Solar Zenith = 75.6°
GPS Altitude = 19394. m (MSL)

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)

RGB (#20,#10,#2)

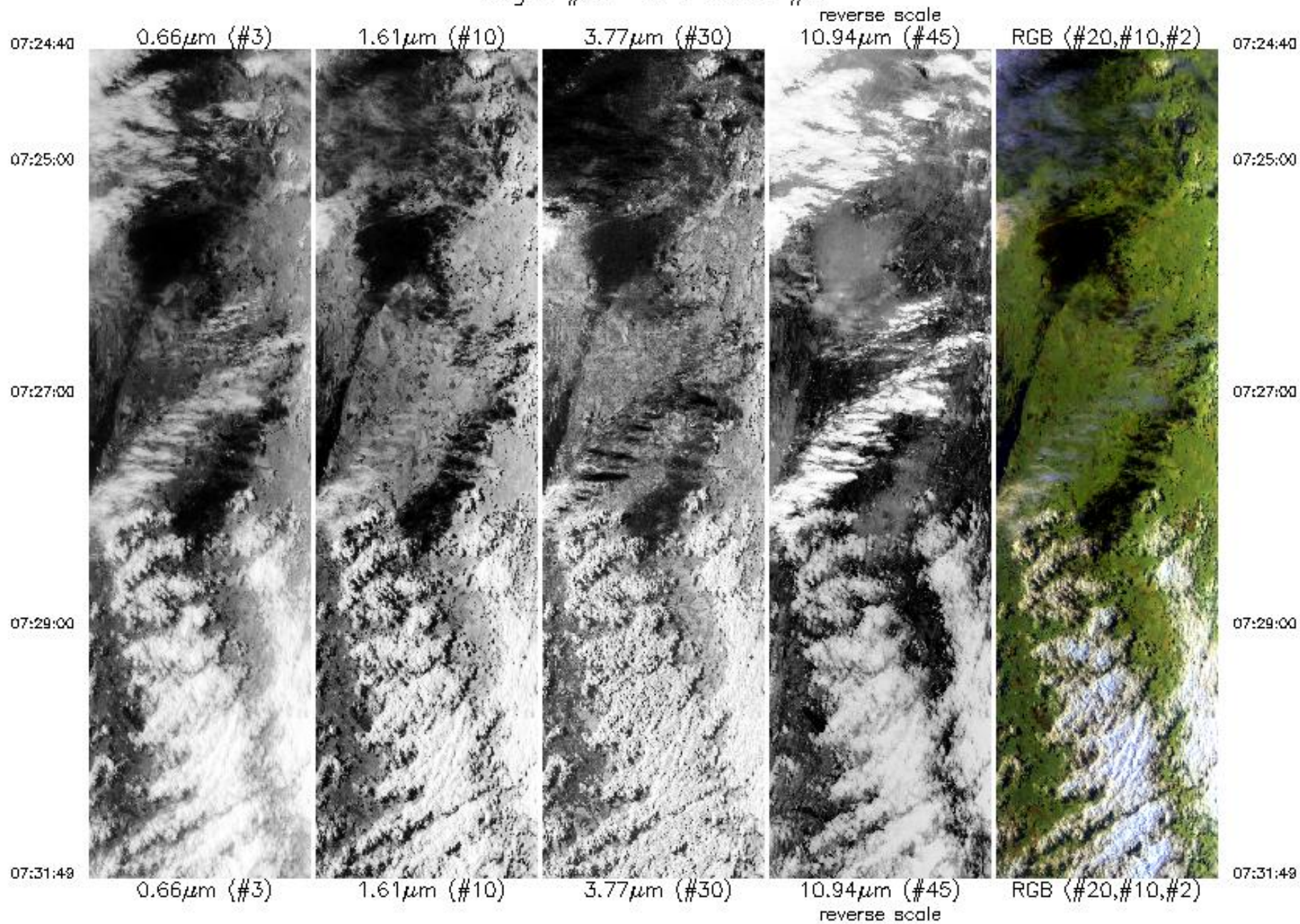
reverse scale

Aircraft Heading = 170.2°

Solar Zenith = 75.6°

GPS Altitude = 19394. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #3



Aircraft Heading = 309.5°

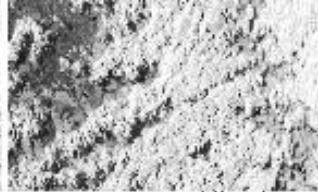
07:31:48



0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale

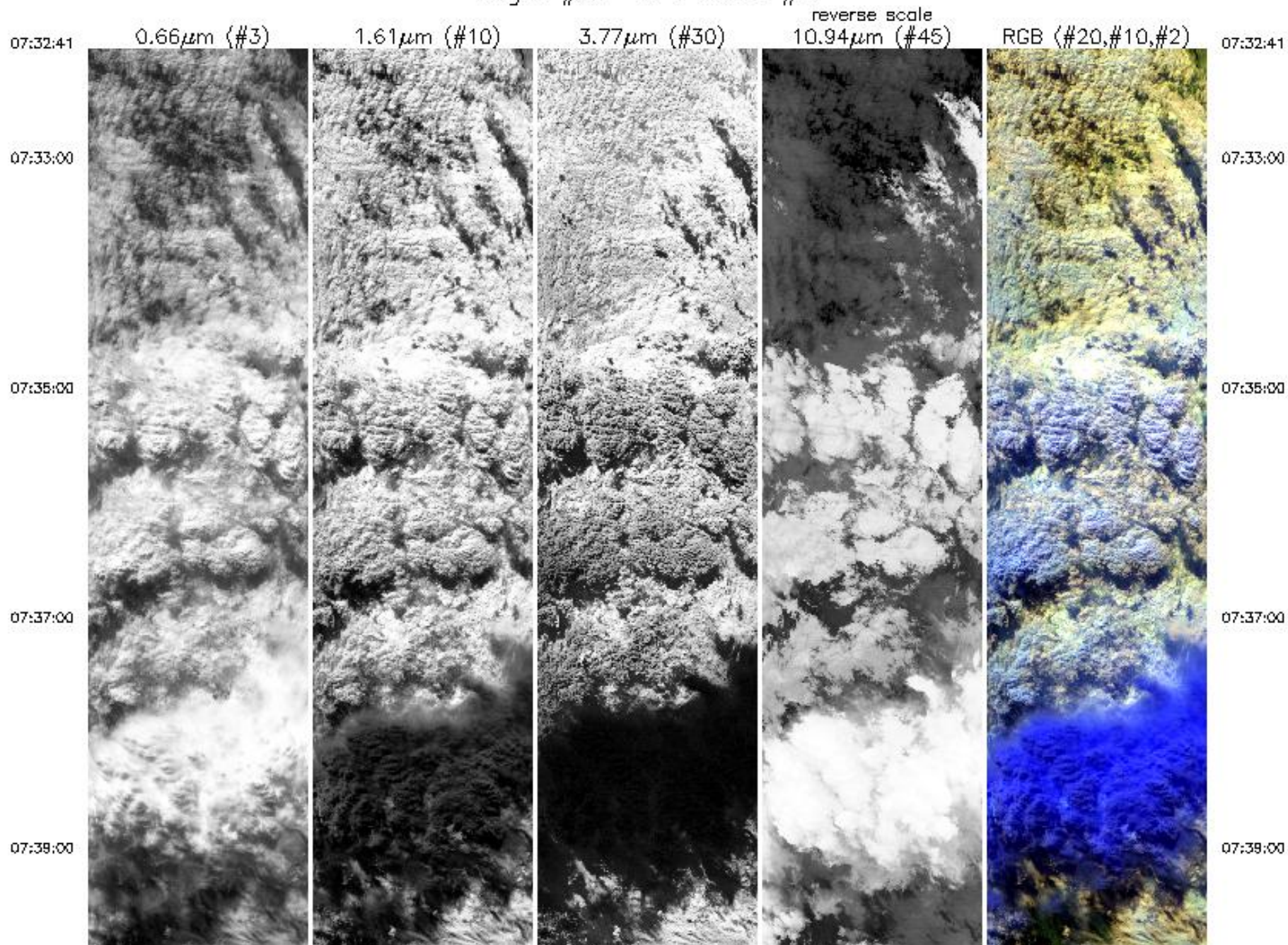


RGB (#20, #10, #2)

07:31:48

Aircraft Heading = 309.5°
Solar Zenith = 72.2°
GPS Altitude = 19537. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #4



07:39:00



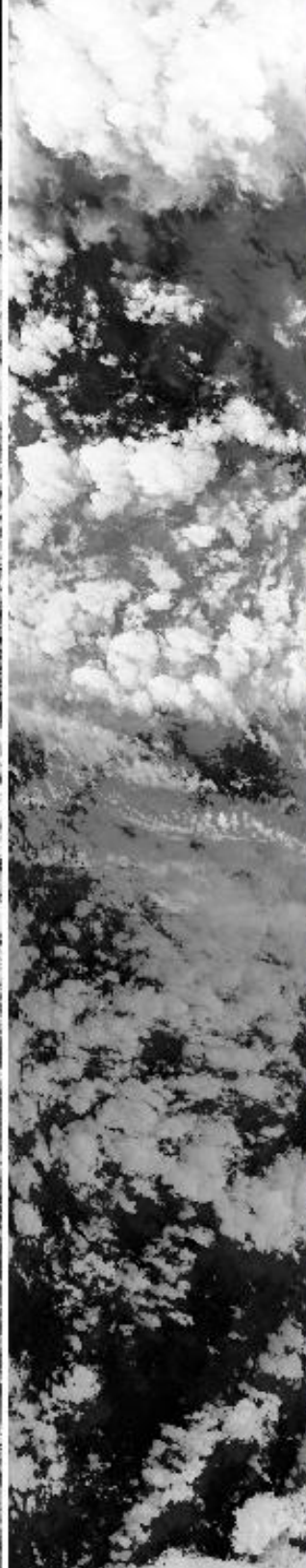
07:41:00



07:43:00



07:45:00



07:47:00



07:39:00

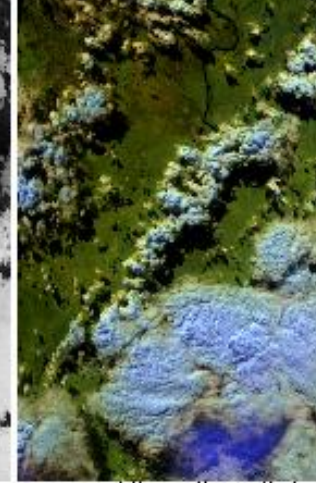
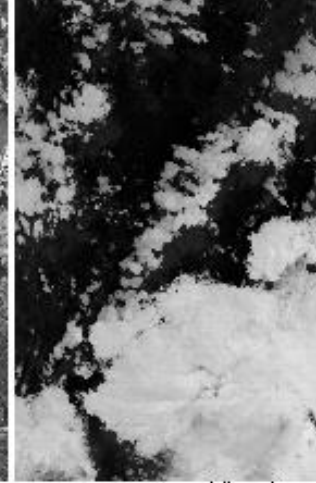
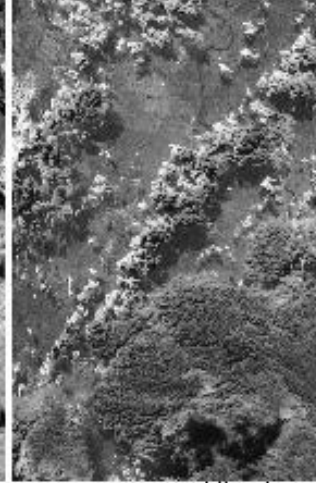
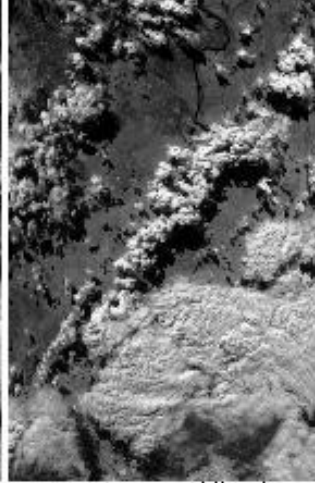
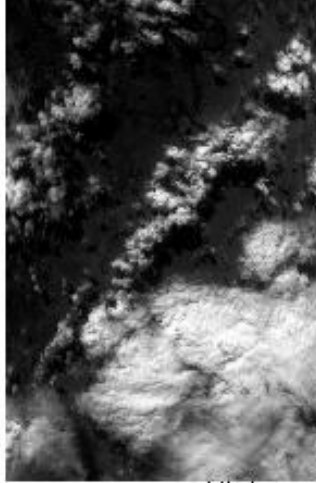
07:41:00

07:43:00

07:45:00

07:47:00

07:47:00



07:47:00

07:48:51

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

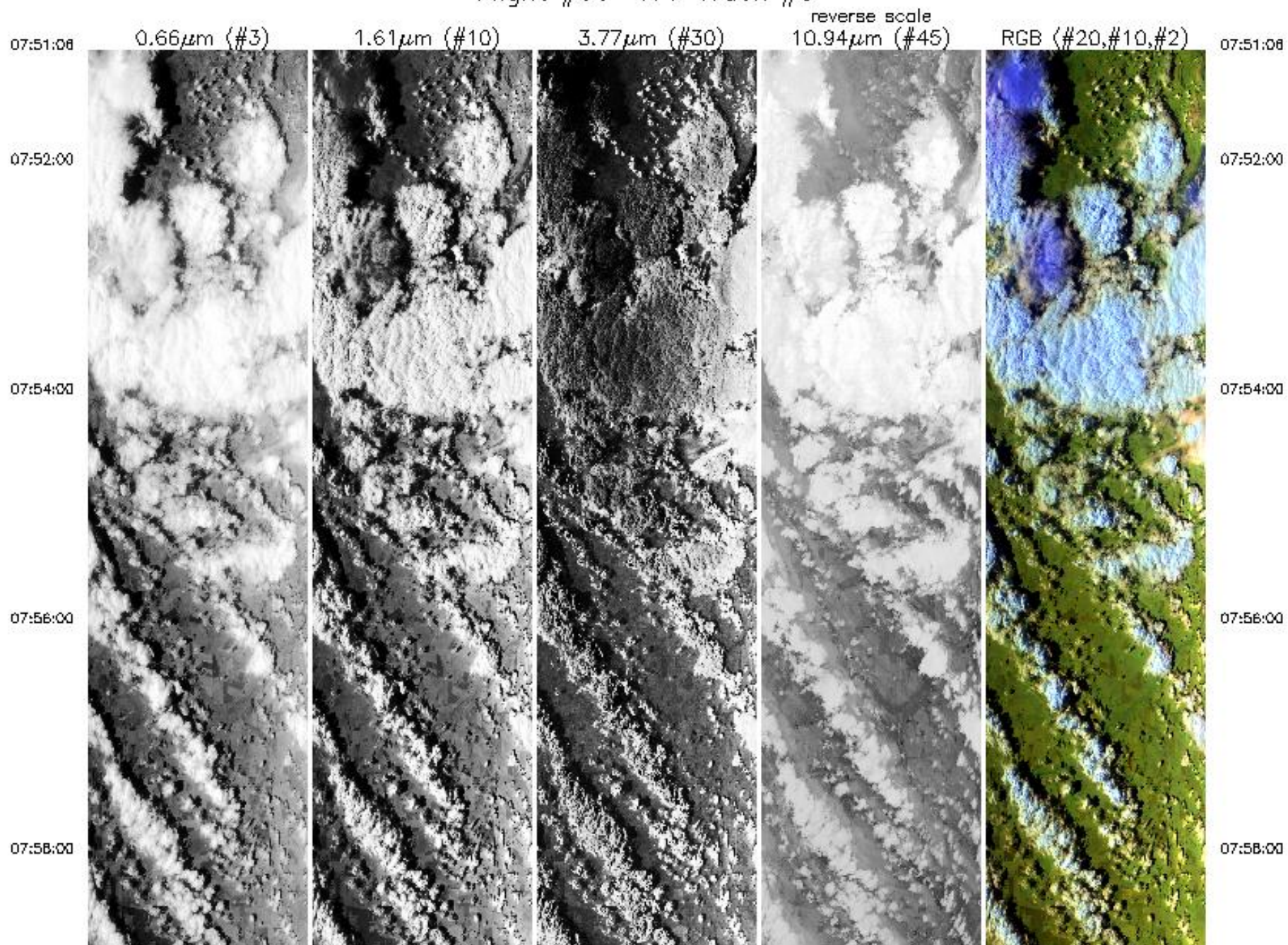
10.94 μ m (#45)
reverse scale

RGB (#20,#10,#2)

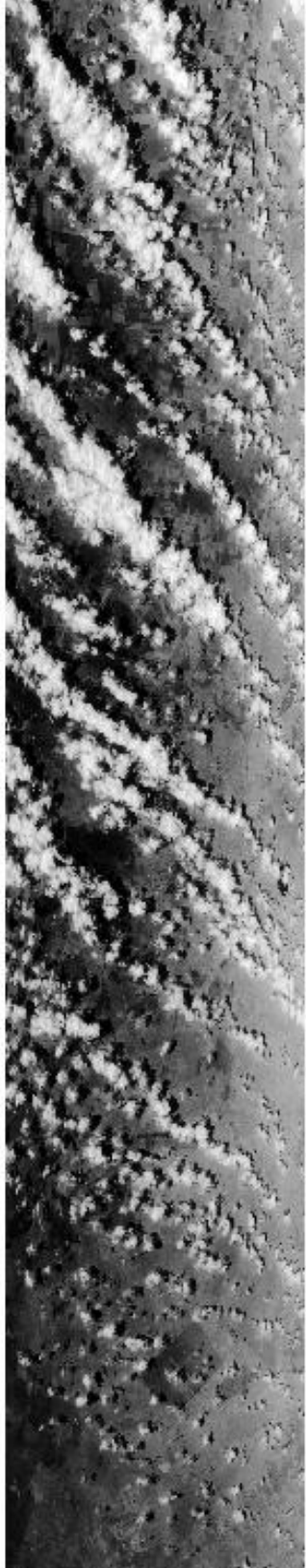
07:48:51

Aircraft Heading = 262.9°
Solar Zenith = 70.4°
GPS Altitude = 19557. m (MSL)

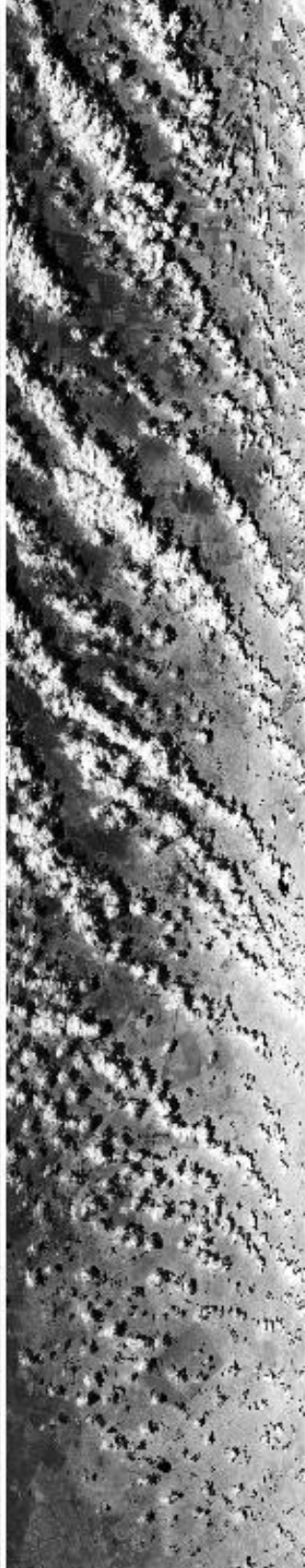
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #5



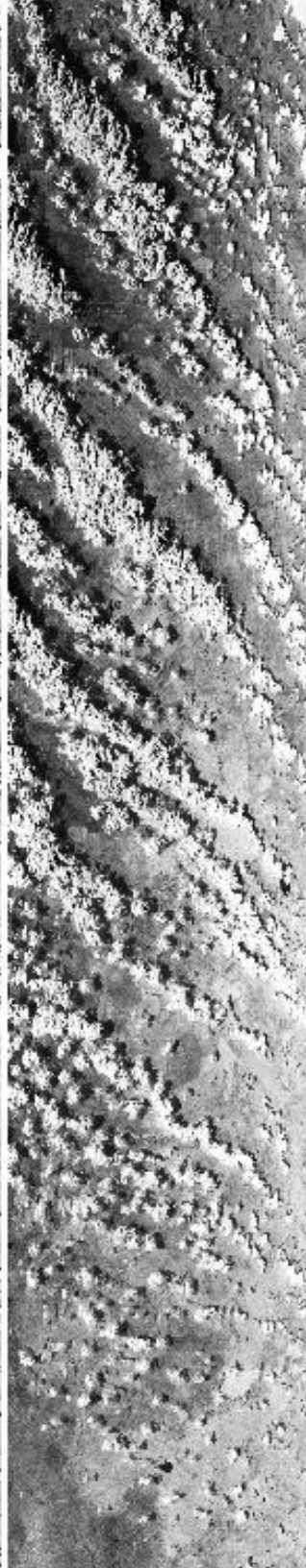
07:58:00



08:00:00



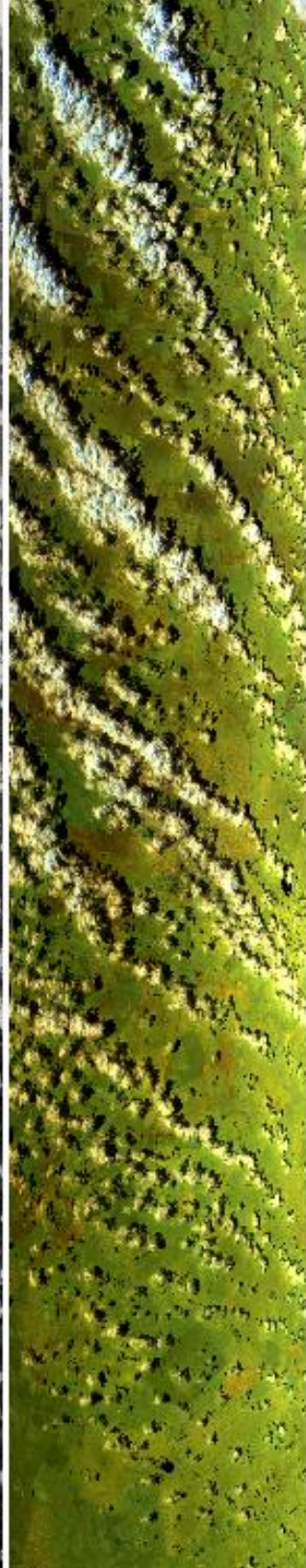
08:02:00



08:04:00



08:06:00



07:58:00

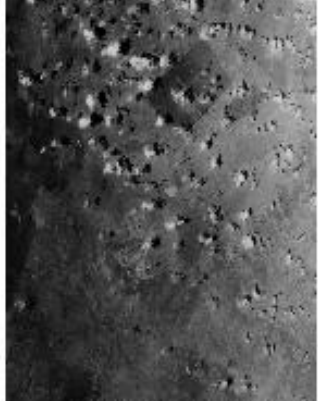
08:00:00

08:02:00

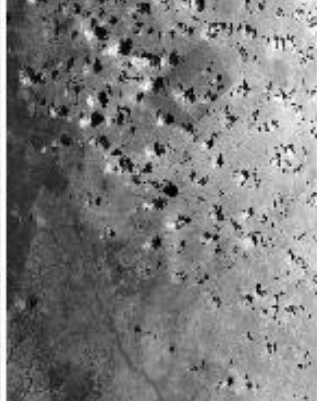
08:04:00

08:06:00

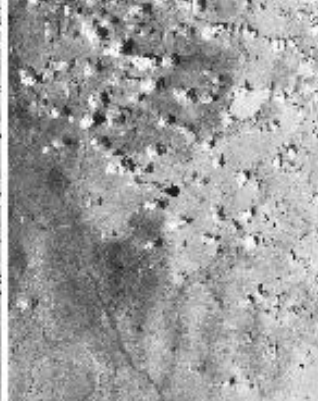
08:06:00



0.66 μ m (#3)



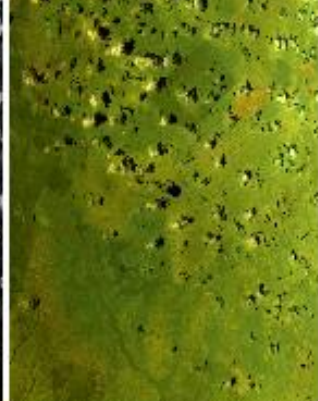
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

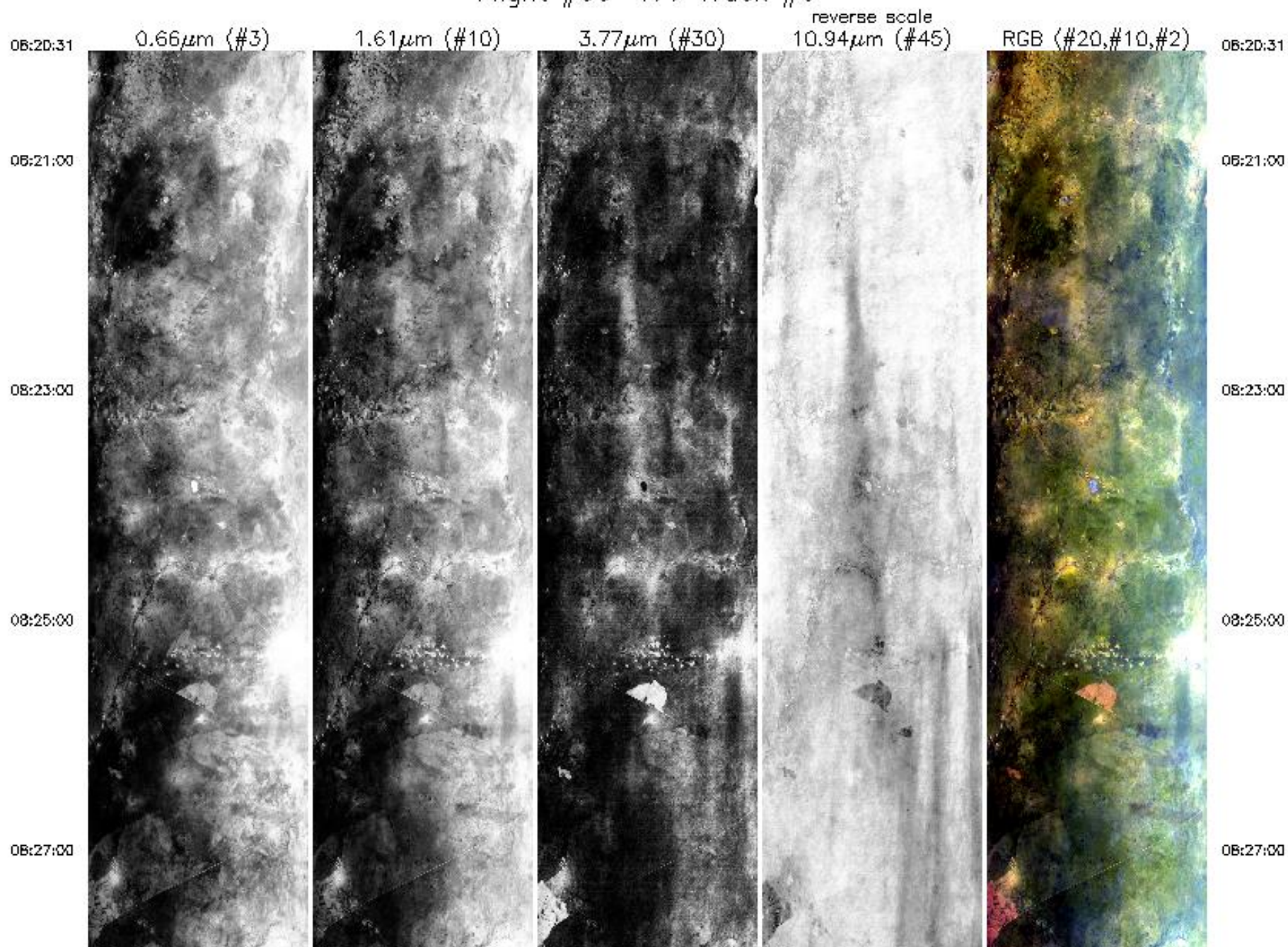
08:06:00

06:07:47

06:07:47

Aircraft Heading = 335.5°
Solar Zenith = 66.5°
GPS Altitude = 19644. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #6



06:27:00



06:29:00



06:31:00



06:33:00



06:35:00



06:27:00

06:29:00

06:31:00

06:33:00

06:35:00

08:35:00



08:37:00



08:39:00



08:41:00



08:43:00



08:35:00

08:37:00

08:39:00

08:41:00

08:43:00

08:43:00



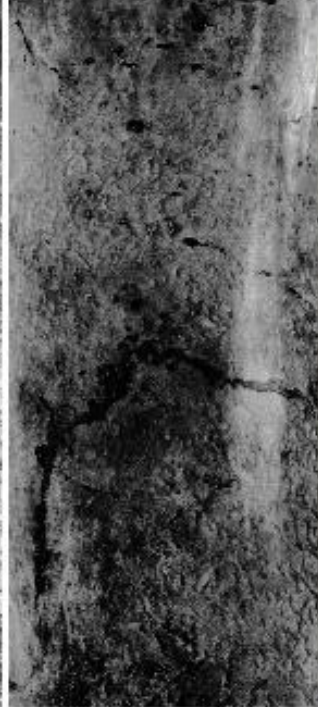
0.66 μ m (#3)



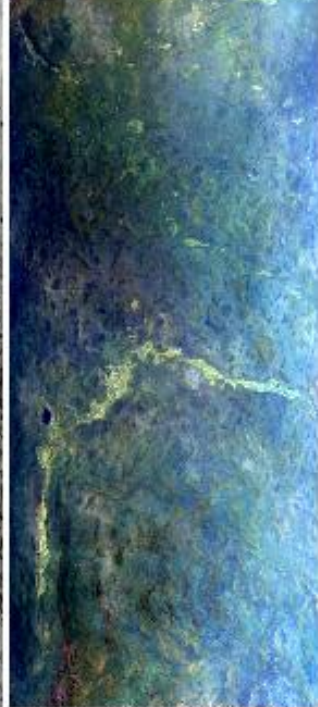
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

08:45:00

08:43:00

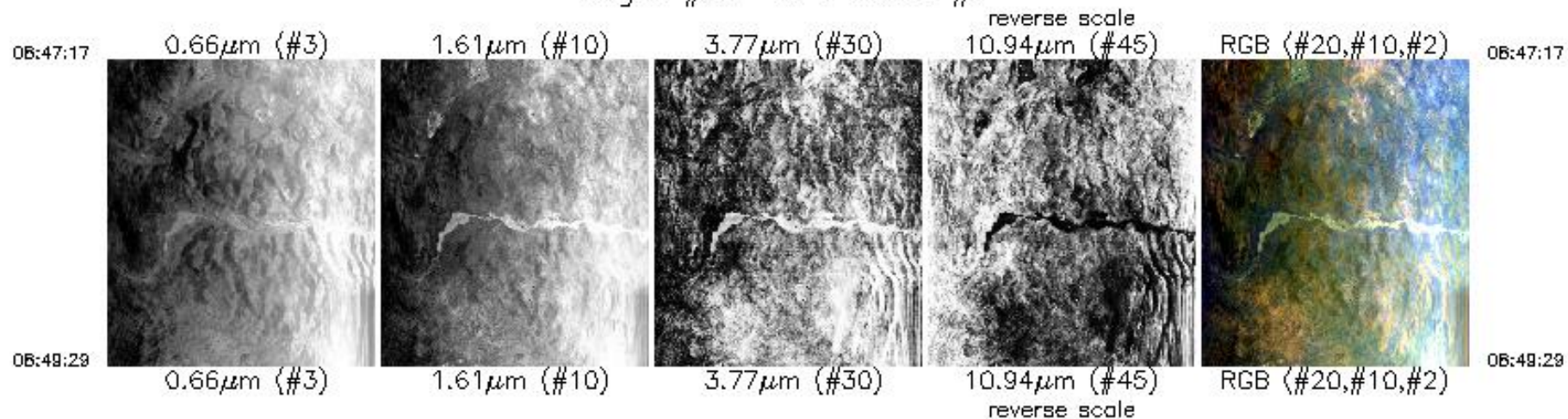
08:45:00

08:47:17

08:47:17

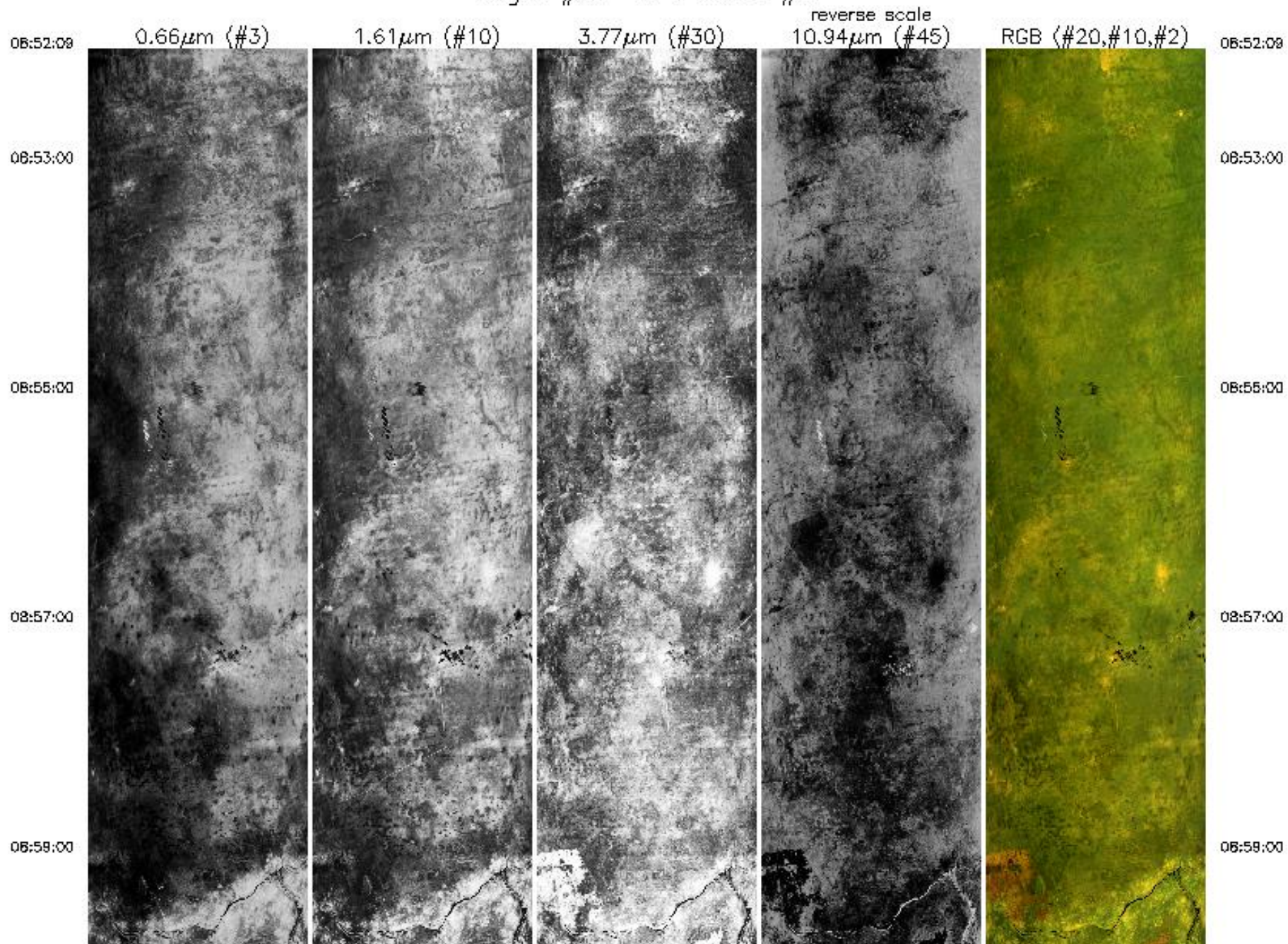
Aircraft Heading = 337.2°
Solar Zenith = 59.3°
GPS Altitude = 19786. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #7

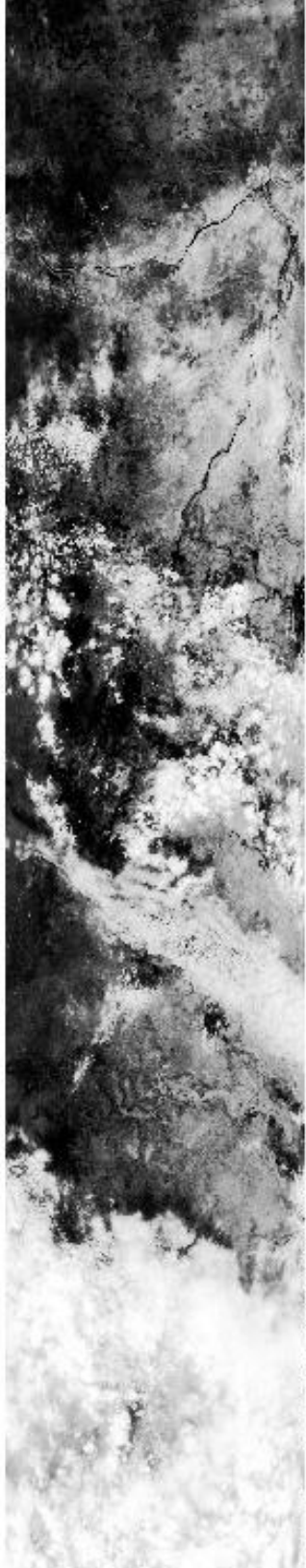


Aircraft Heading = 338.5°
Solar Zenith = 52.6°
GPS Altitude = 19912. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #8



06:59:00



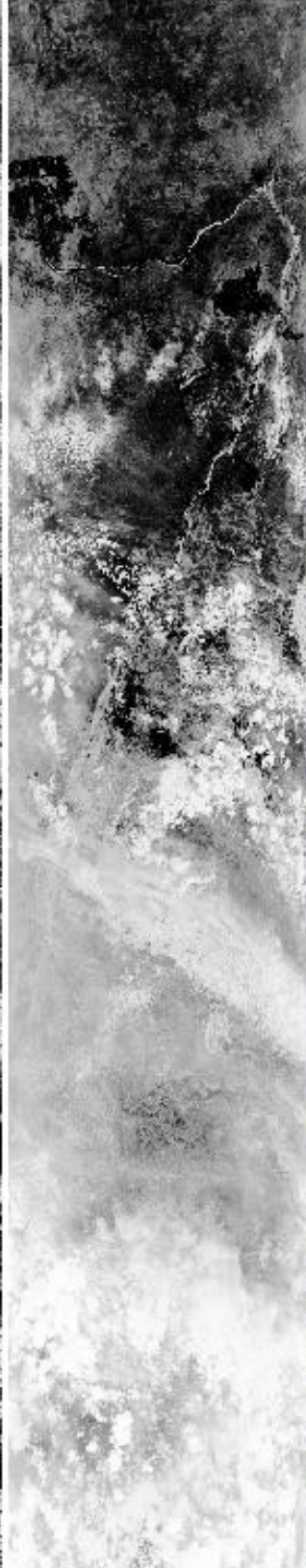
09:01:00



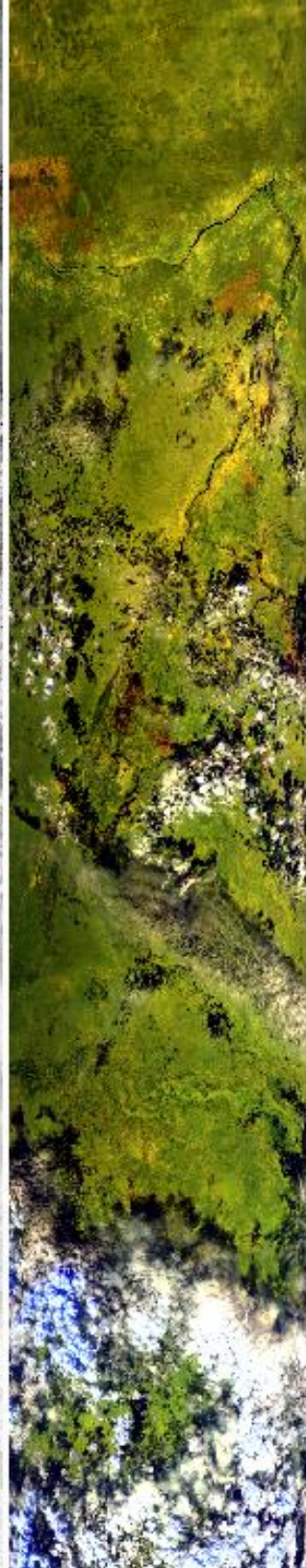
09:03:00



09:05:00



09:07:00



06:59:00

09:01:00

09:03:00

09:05:00

09:07:00

09:07:00

09:09:00

09:11:00

09:13:24



0.66 μm (#3)



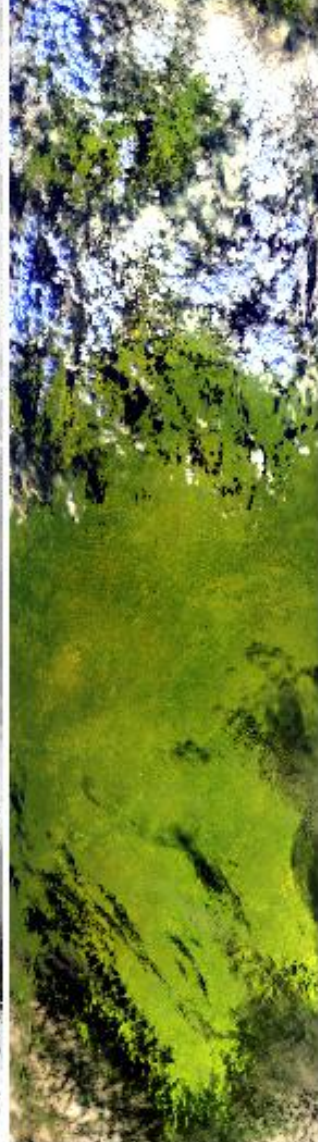
1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20,#10,#2)

09:07:00

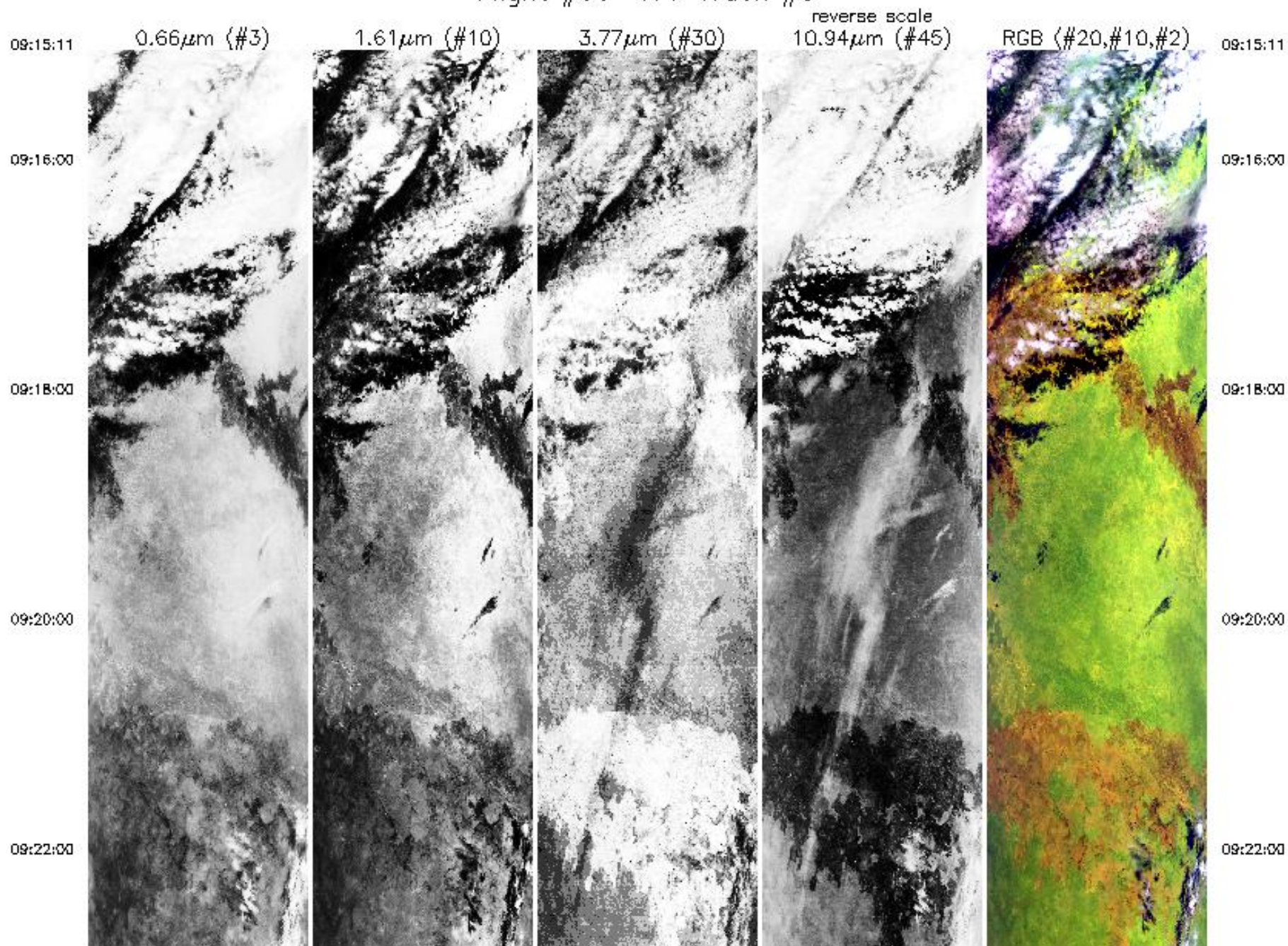
09:09:00

09:11:00

09:13:24

Aircraft Heading = 2.0°
Solar Zenith = 51.4°
GPS Altitude = 20002. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana/Namibia
Flight #00-177 Track #9



09:22:00



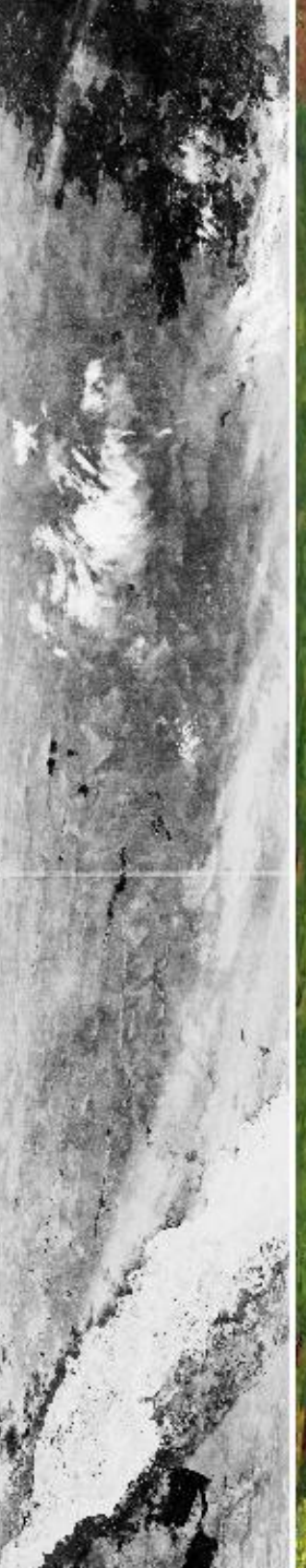
09:24:00



09:26:00



09:28:00



09:30:00



09:22:00

09:24:00

09:26:00

09:28:00

09:30:00

09:30:00



09:32:00



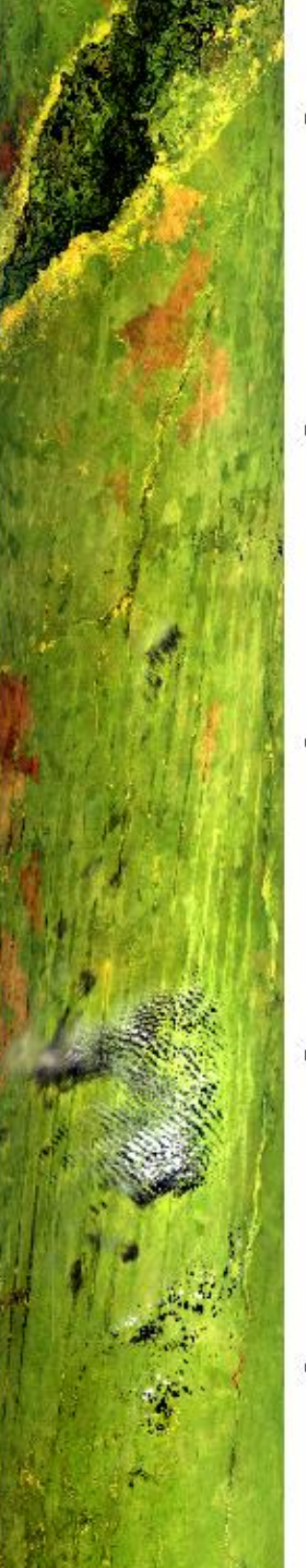
09:34:00



09:36:00



09:38:00



09:30:00

09:32:00

09:34:00

09:36:00

09:38:00

09:38:00

09:40:00

09:41:57



09:38:00

09:40:00

09:41:57

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

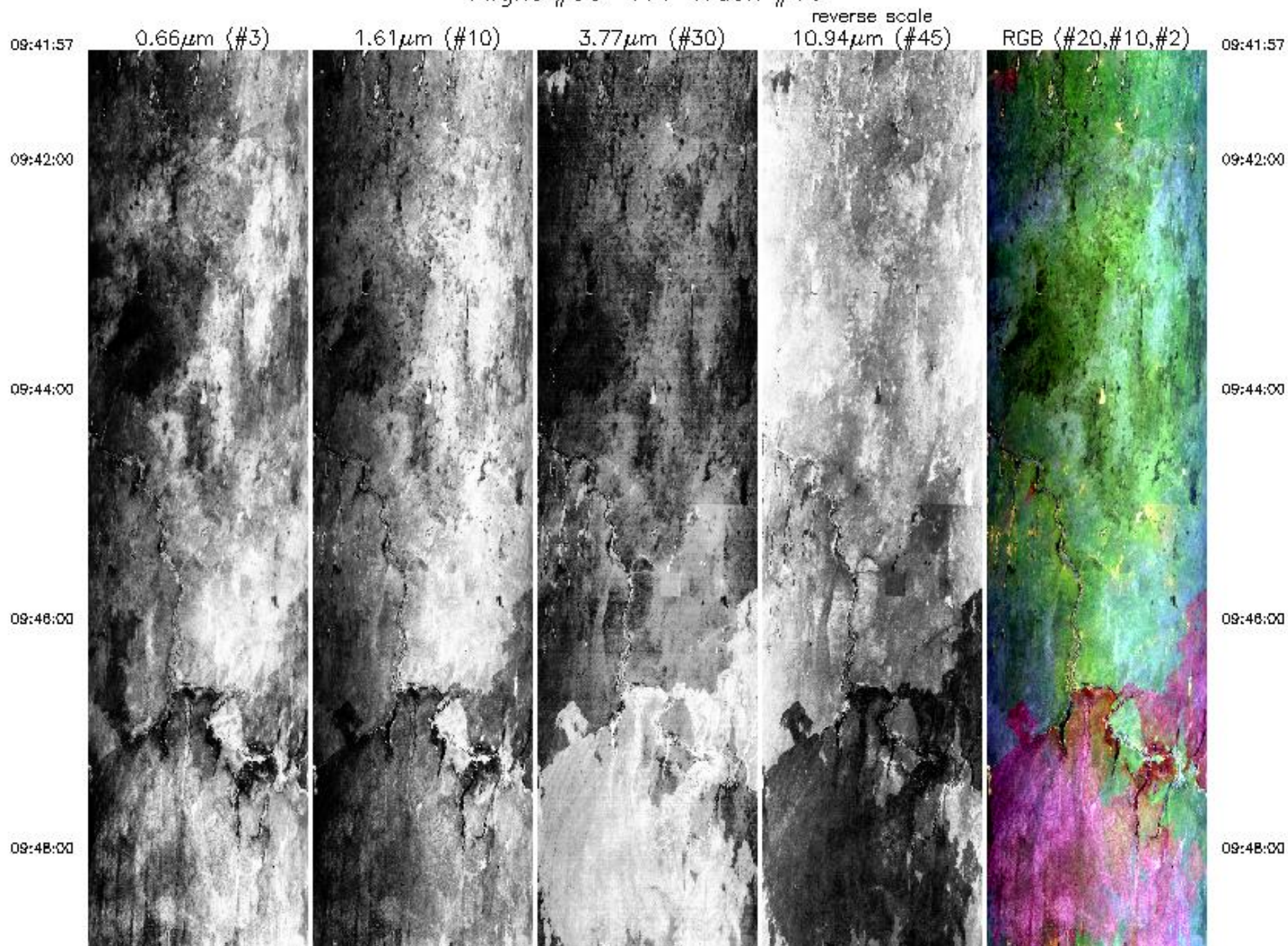
RGB (#20,#10,#2)

Aircraft Heading = 274.5°

Solar Zenith = 45.4°

GPS Altitude = 20140. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Namibia
Flight #00-177 Track #10



09:48:00

09:50:00

09:52:14



09:48:00

09:50:00

09:52:14

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

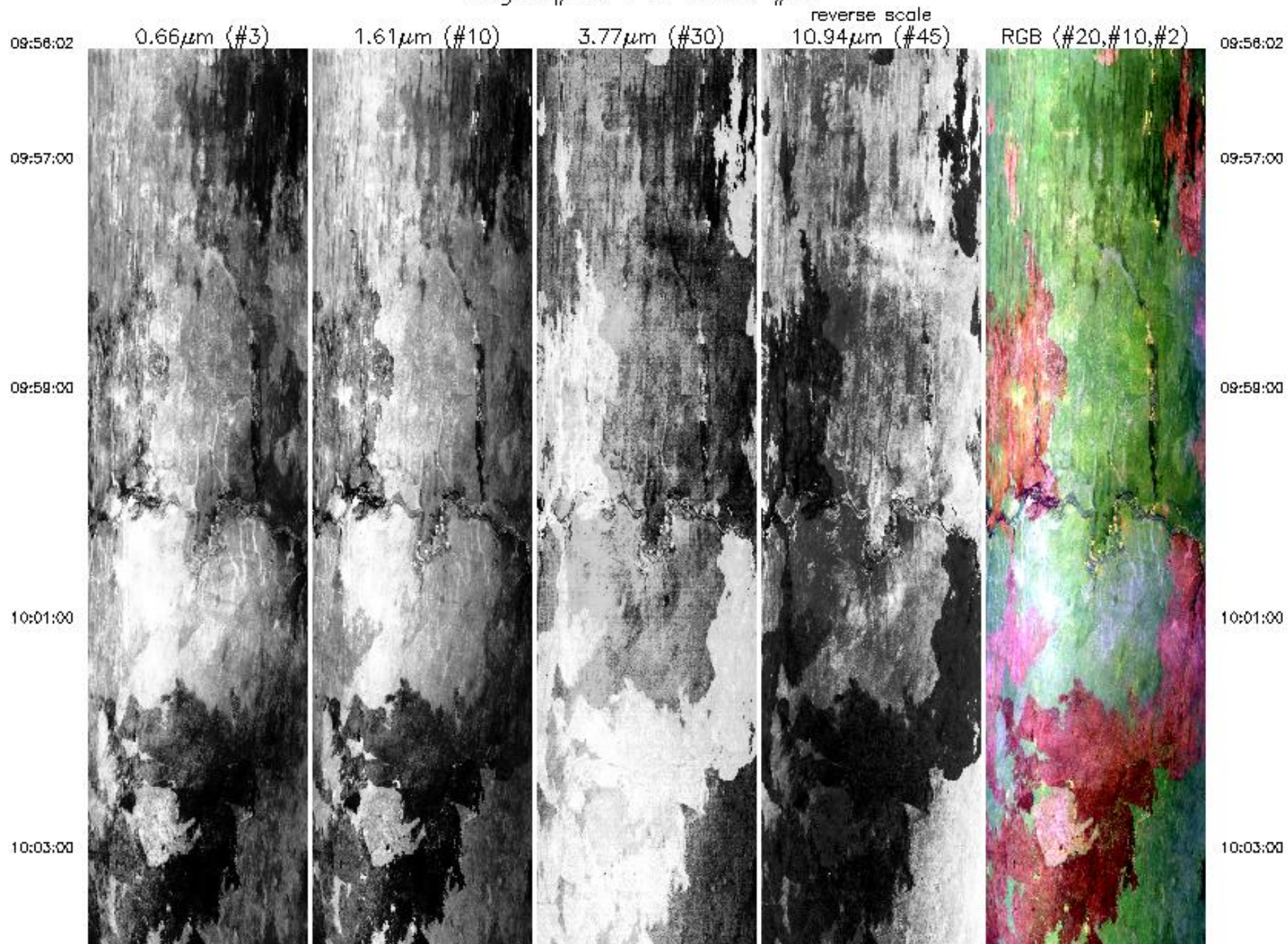
RGB (#20,#10,#2)

Aircraft Heading = 270.0°

Solar Zenith = 39.5°

GPS Altitude = 20186. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Namibia/Botswana
Flight #00-177 Track #11



10:03:00

10:05:00

10:07:00

10:08:00

10:11:00

10:11:52



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)



RGB (#20,#10,#2)

10:03:00

10:05:00

10:07:00

10:08:00

10:11:00

10:11:52

10:11:00

10:11:52



0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



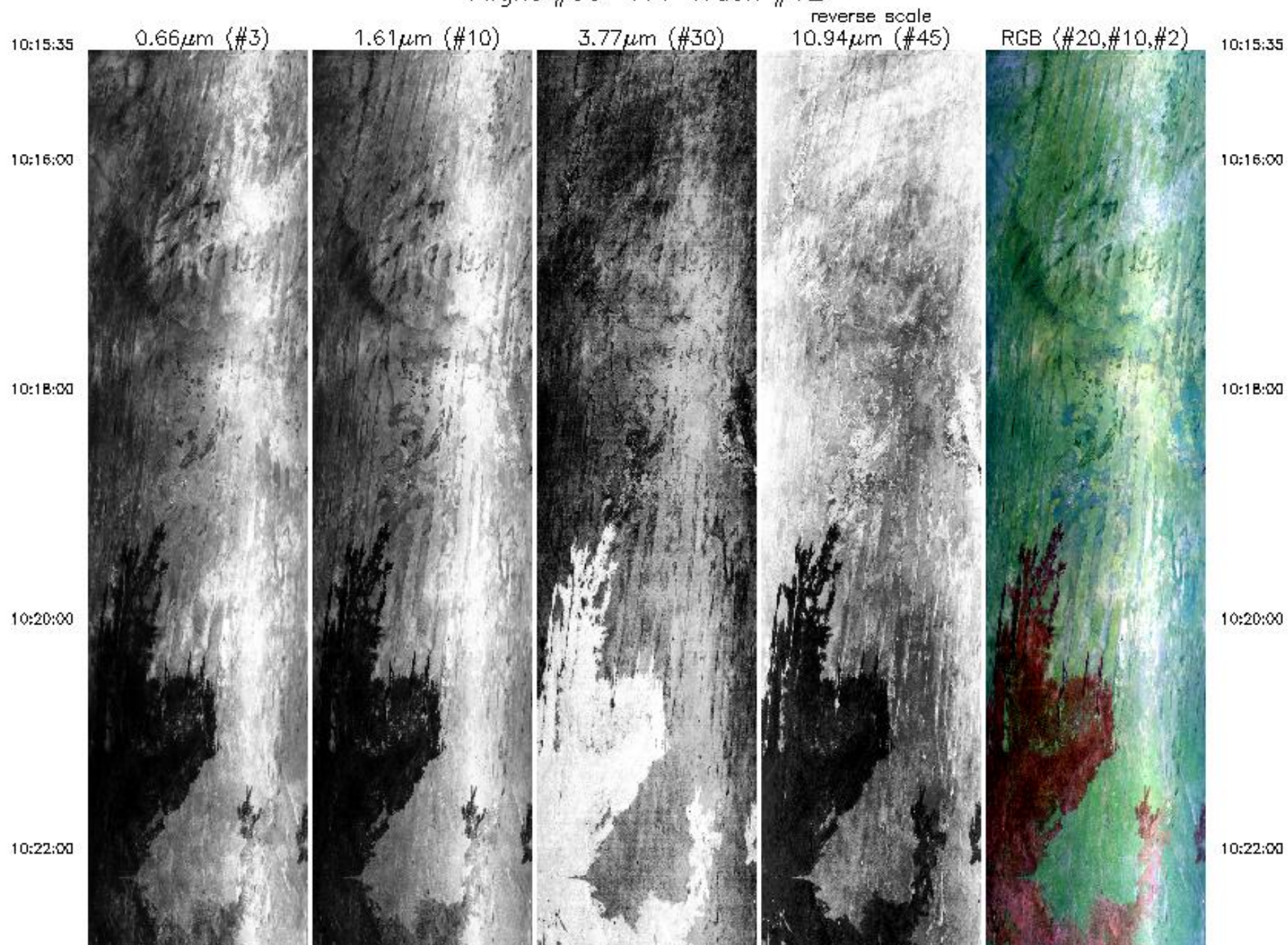
RGB (#20,#10,#2)

10:11:00

10:11:52

Aircraft Heading = 92.2°
Solar Zenith = 36.9°
GPS Altitude = 20291. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Namibia
Flight #00-177 Track #12



10:22:00

10:24:00

10:26:00

10:28:00

10:29:27



0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

10:22:00

10:24:00

10:26:00

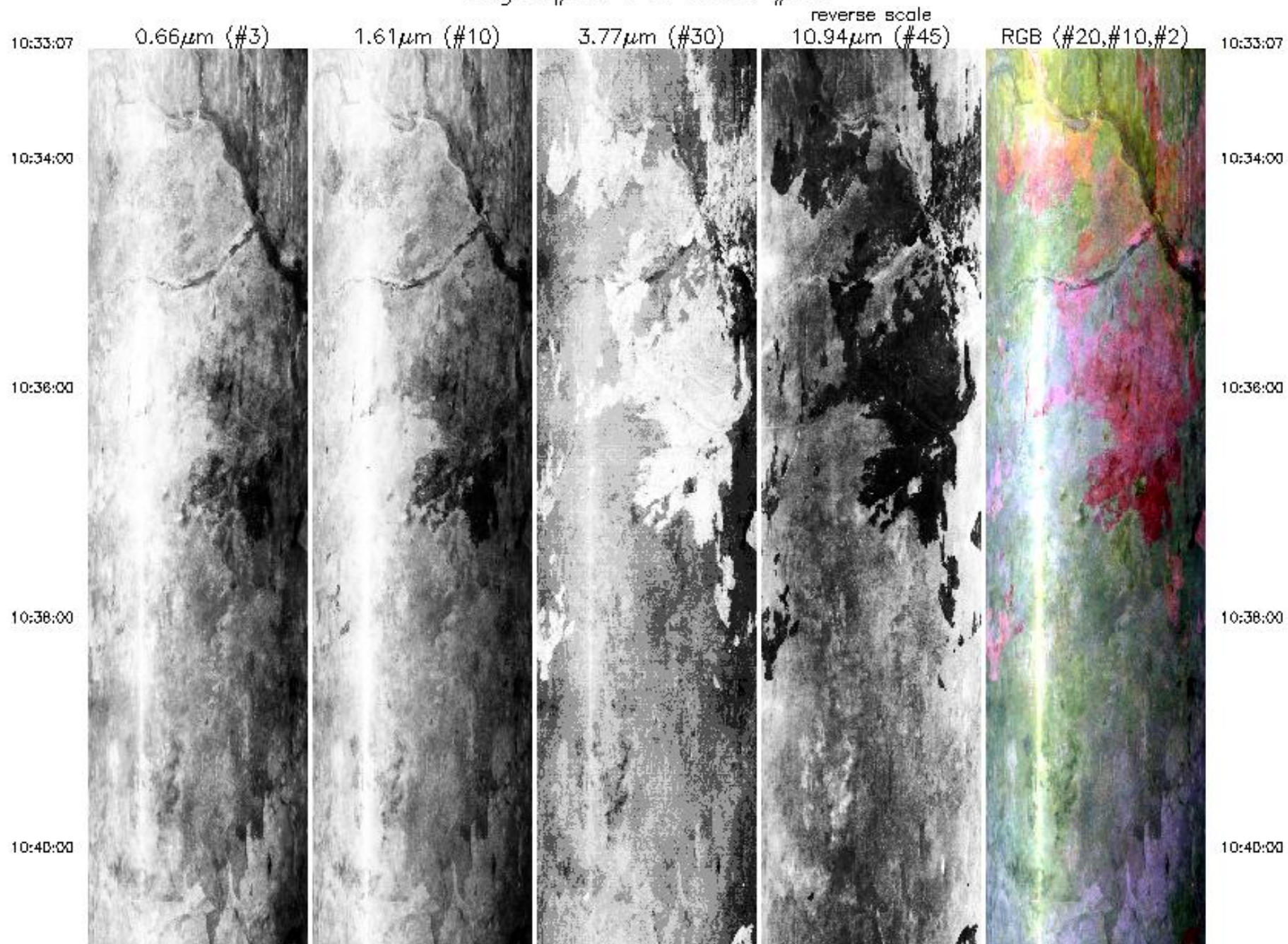
10:28:00

10:29:27

Aircraft Heading = 269.4°
 Solar Zenith = 33.1°
 GPS Altitude = 20271. m (MSL)

Aircraft Heading = 269.4°
Solar Zenith = 33.1°
GPS Altitude = 20271. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Namibia/Botswana
Flight #00-177 Track #13



10:40:00



10:42:00



10:44:00



10:46:00



10:48:00



10:40:00

10:42:00

10:44:00

10:46:00

10:48:00

10:48:00



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

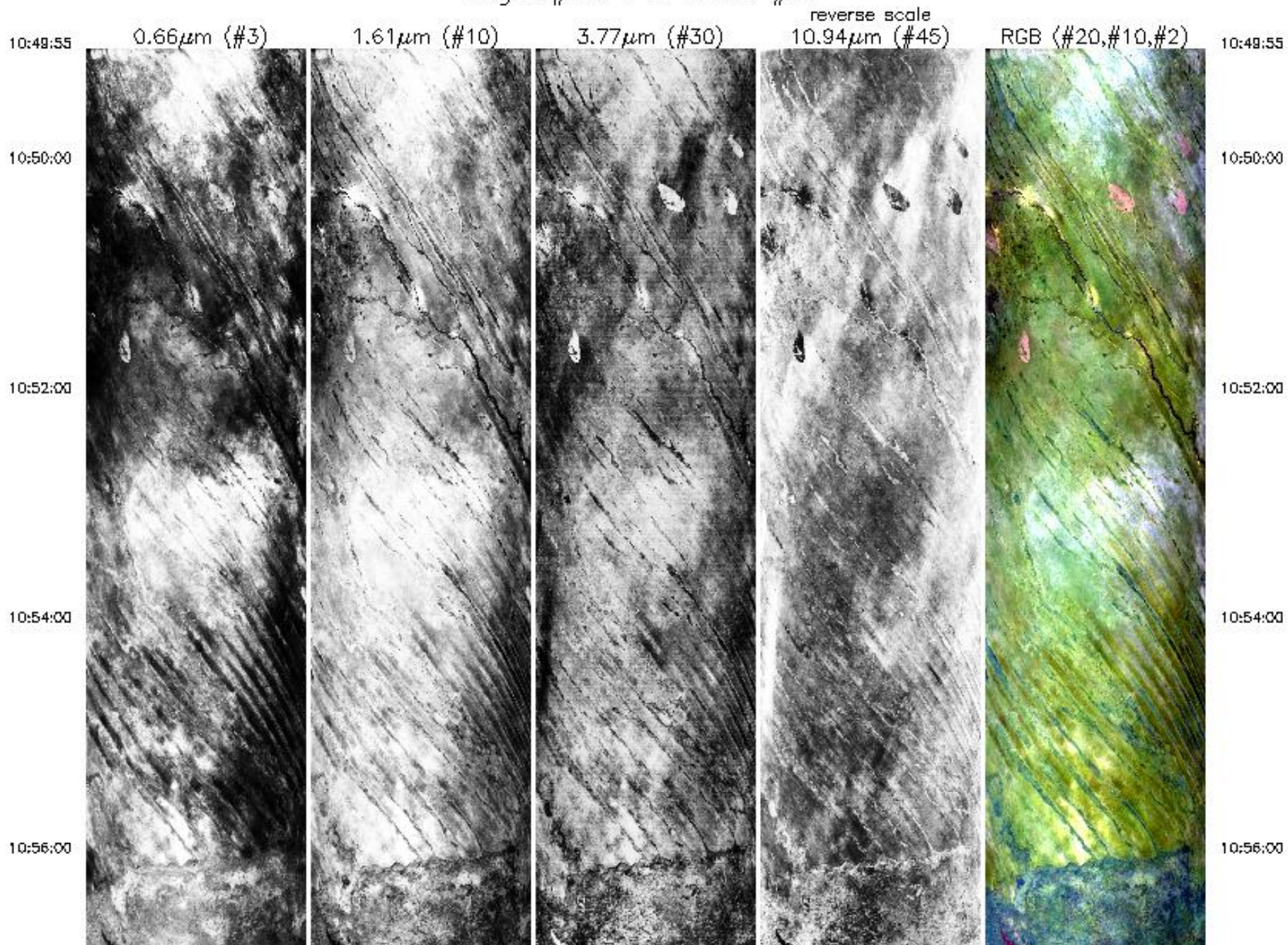
10:48:00

10:48:37

10:48:37

Aircraft Heading = 90.7°
Solar Zenith = 30.3°
GPS Altitude = 20402. m (MSL)

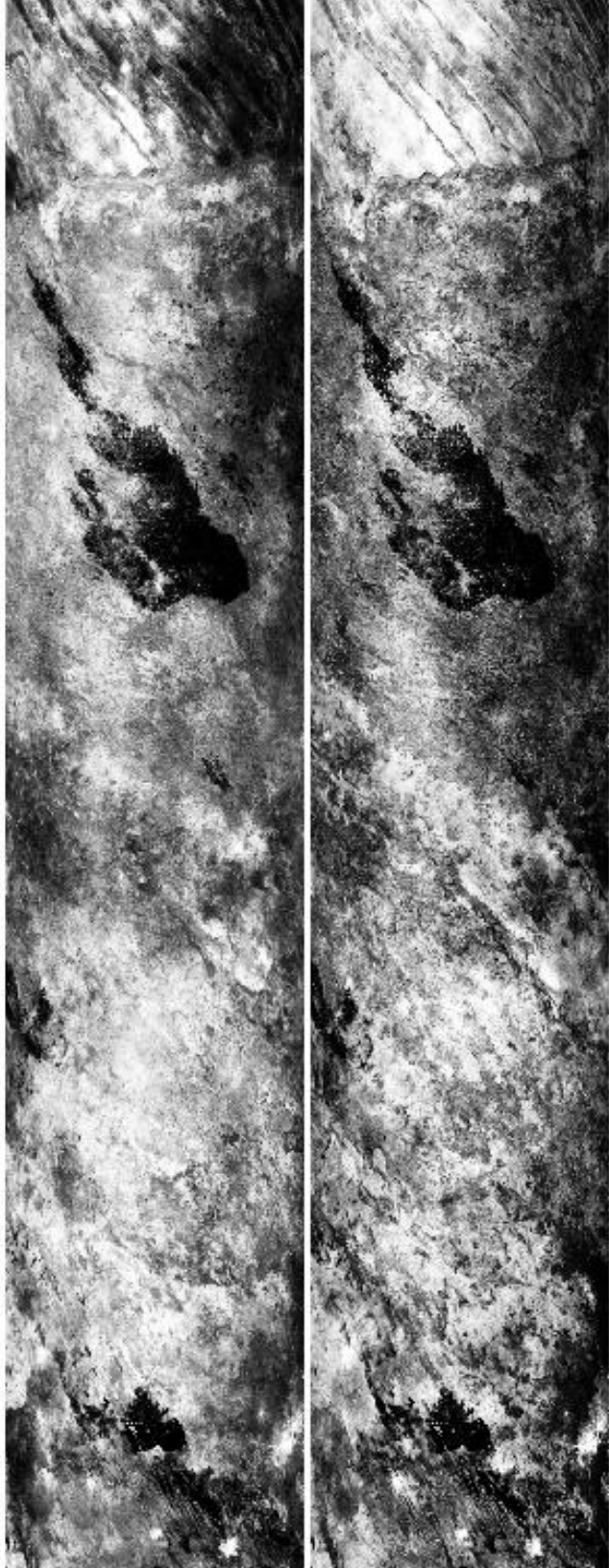
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #14



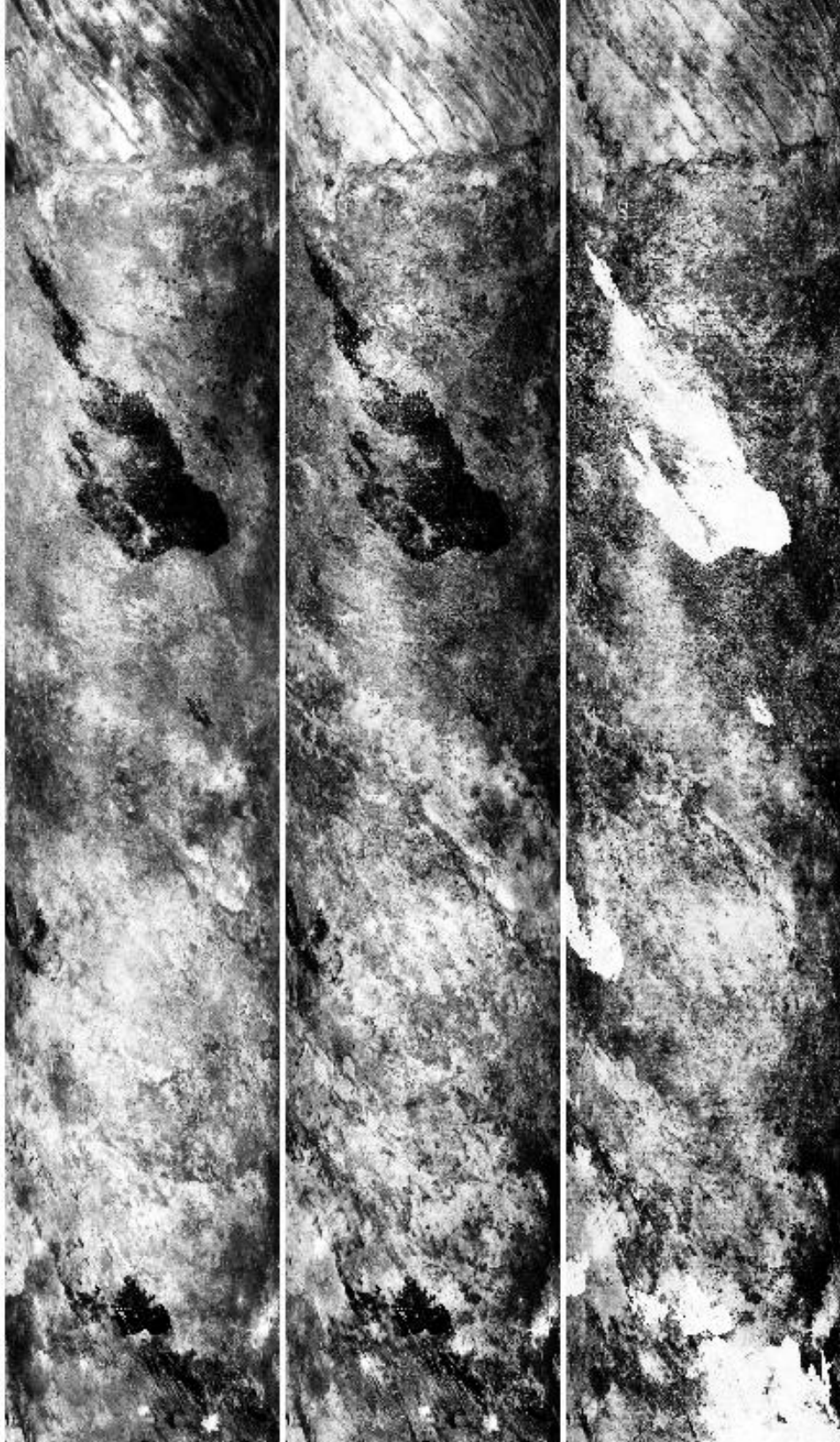
10:56:00



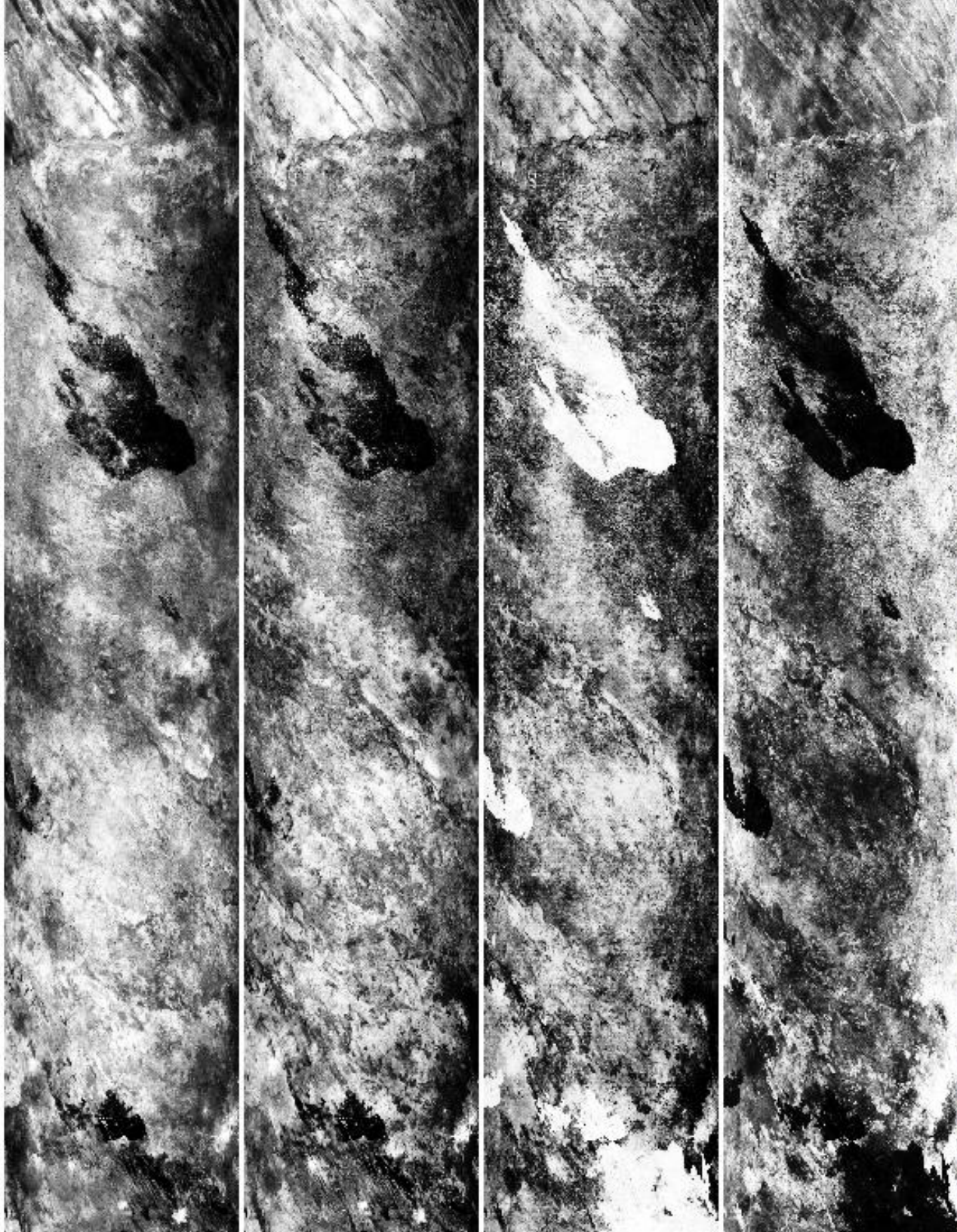
10:58:00



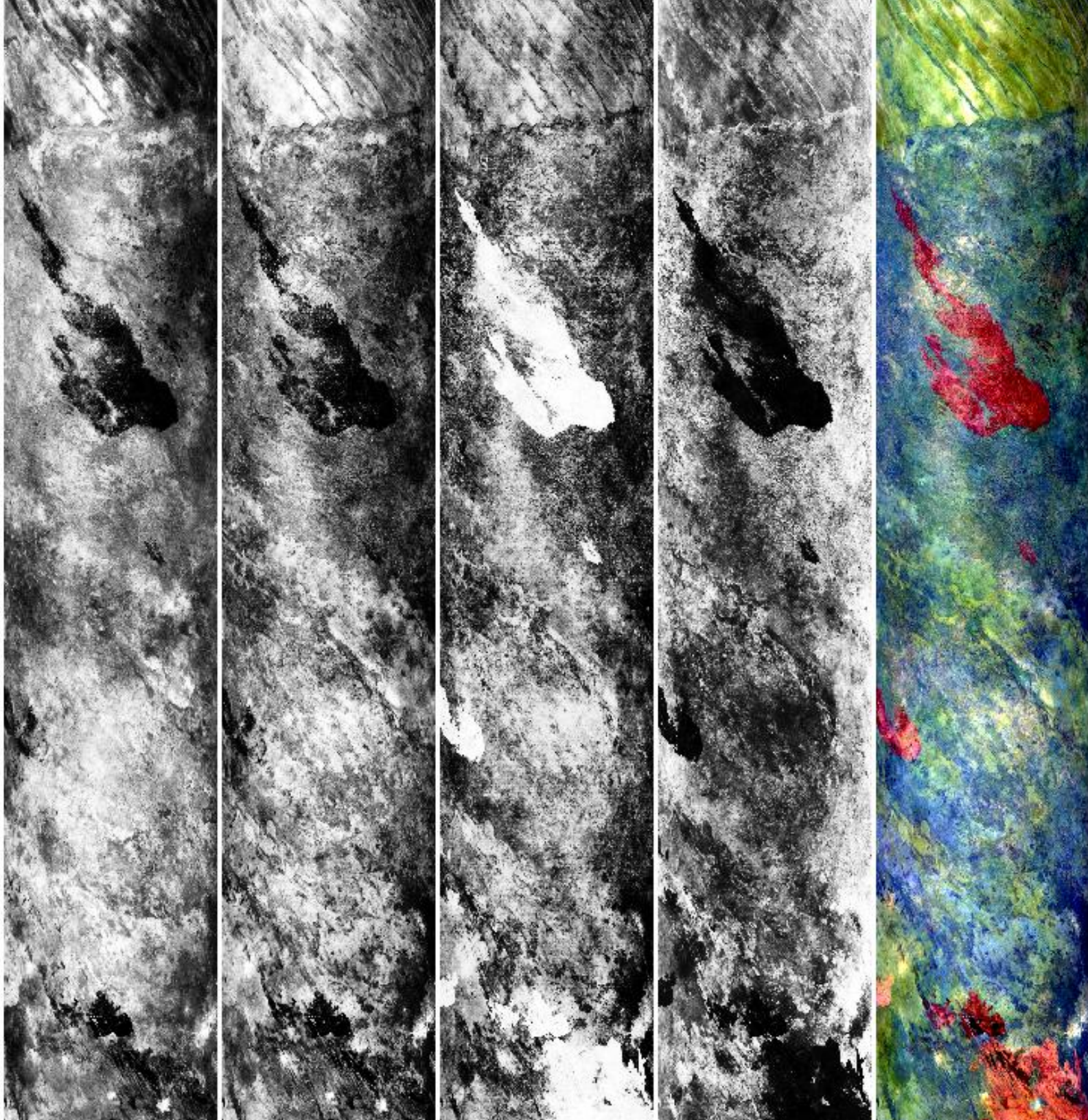
11:00:00



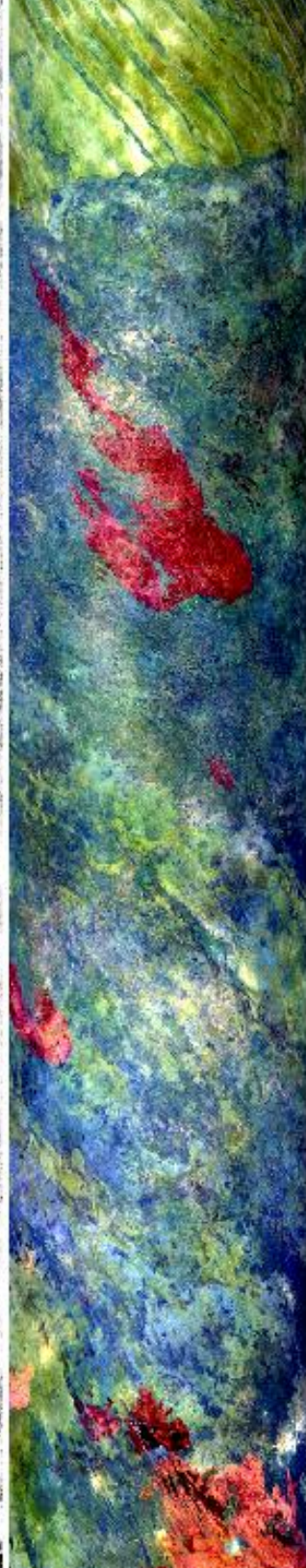
11:02:00



11:04:00



10:56:00



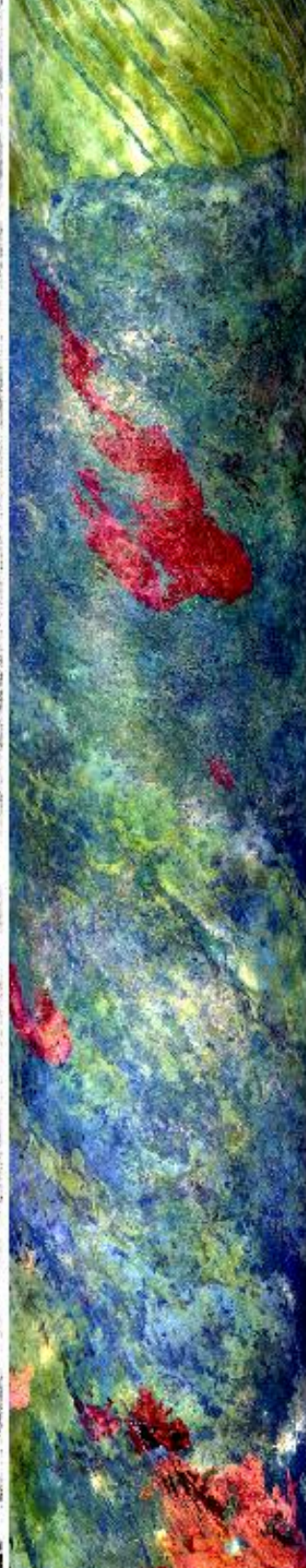
10:58:00



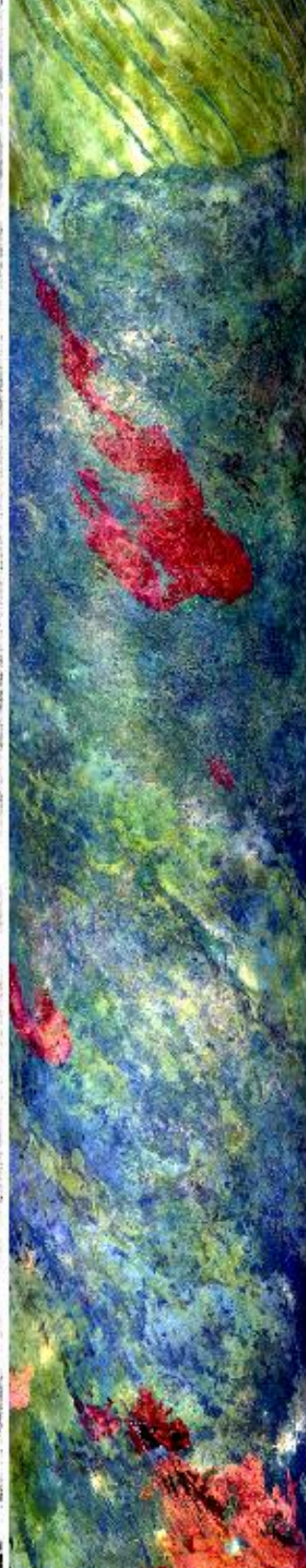
11:00:00



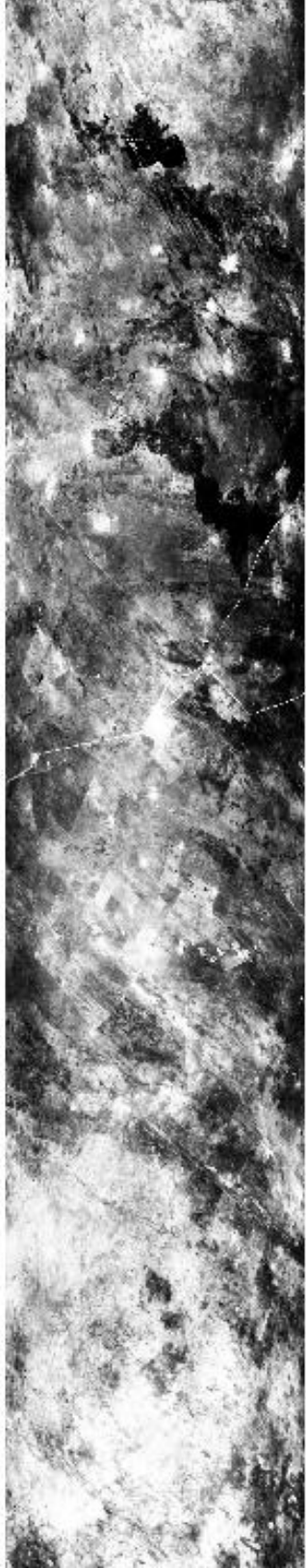
11:02:00



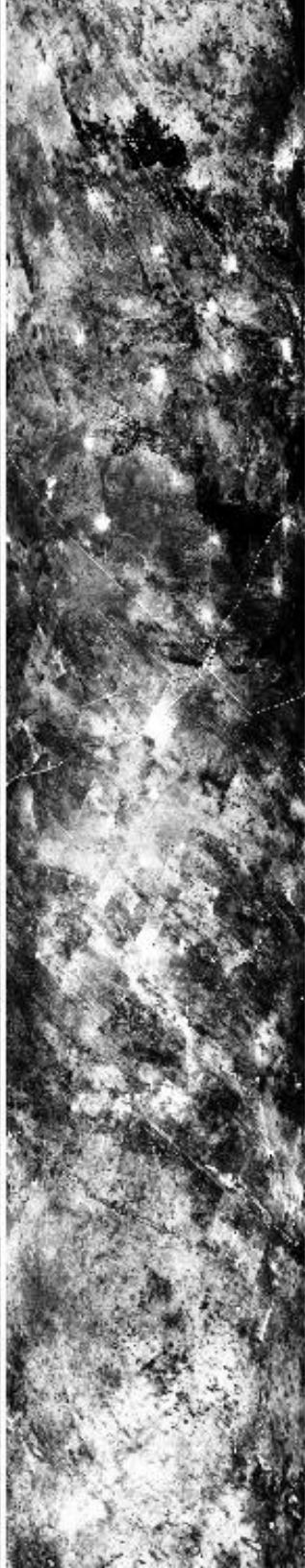
11:04:00



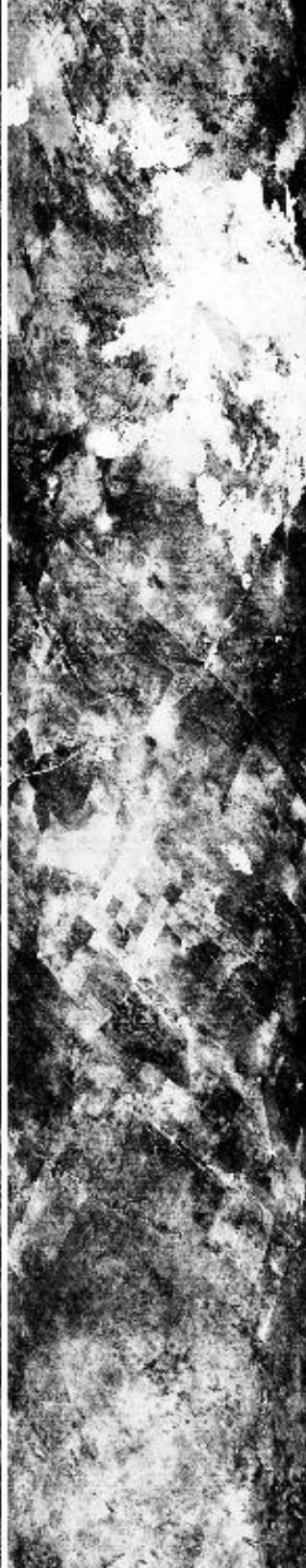
11:04:00



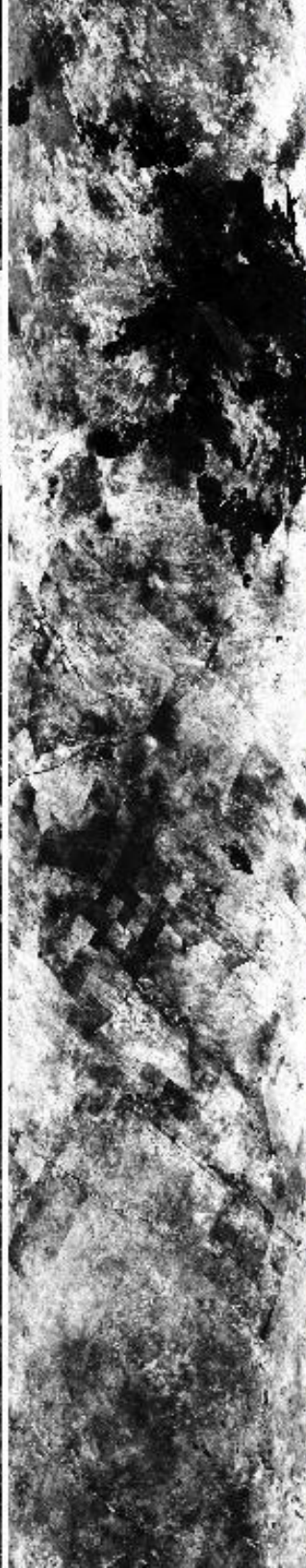
11:06:00



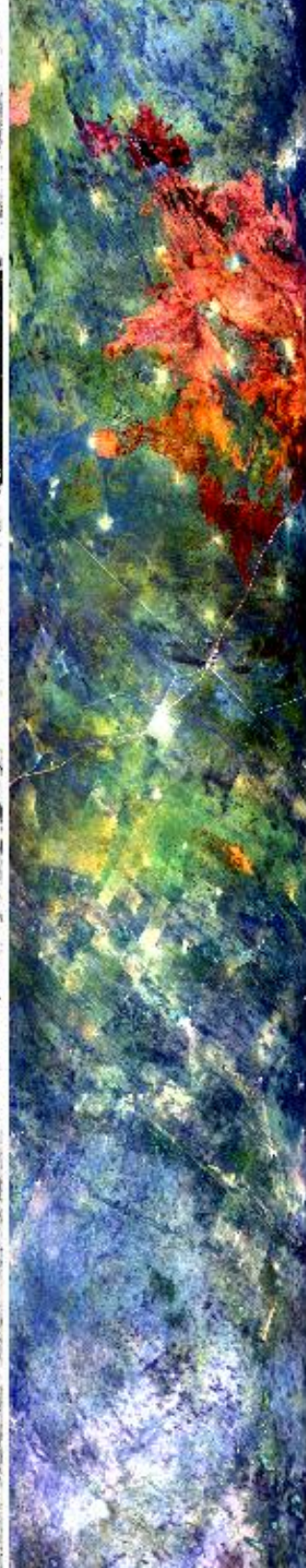
11:08:00



11:10:00



11:12:00



11:04:00

11:06:00

11:08:00

11:10:00

11:12:00

11:12:00

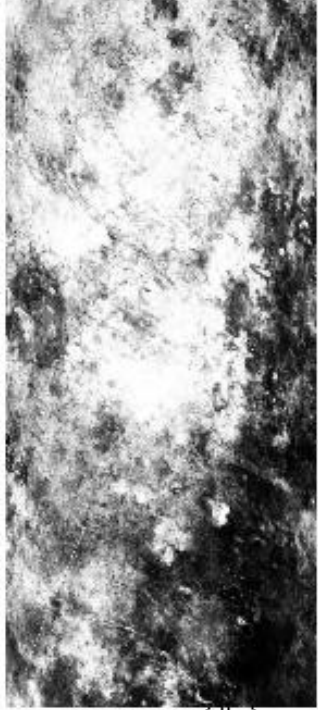
11:12:00

11:14:00

11:14:00

11:16:42

11:16:42



0.66µm (#3)

1.61µm (#10)

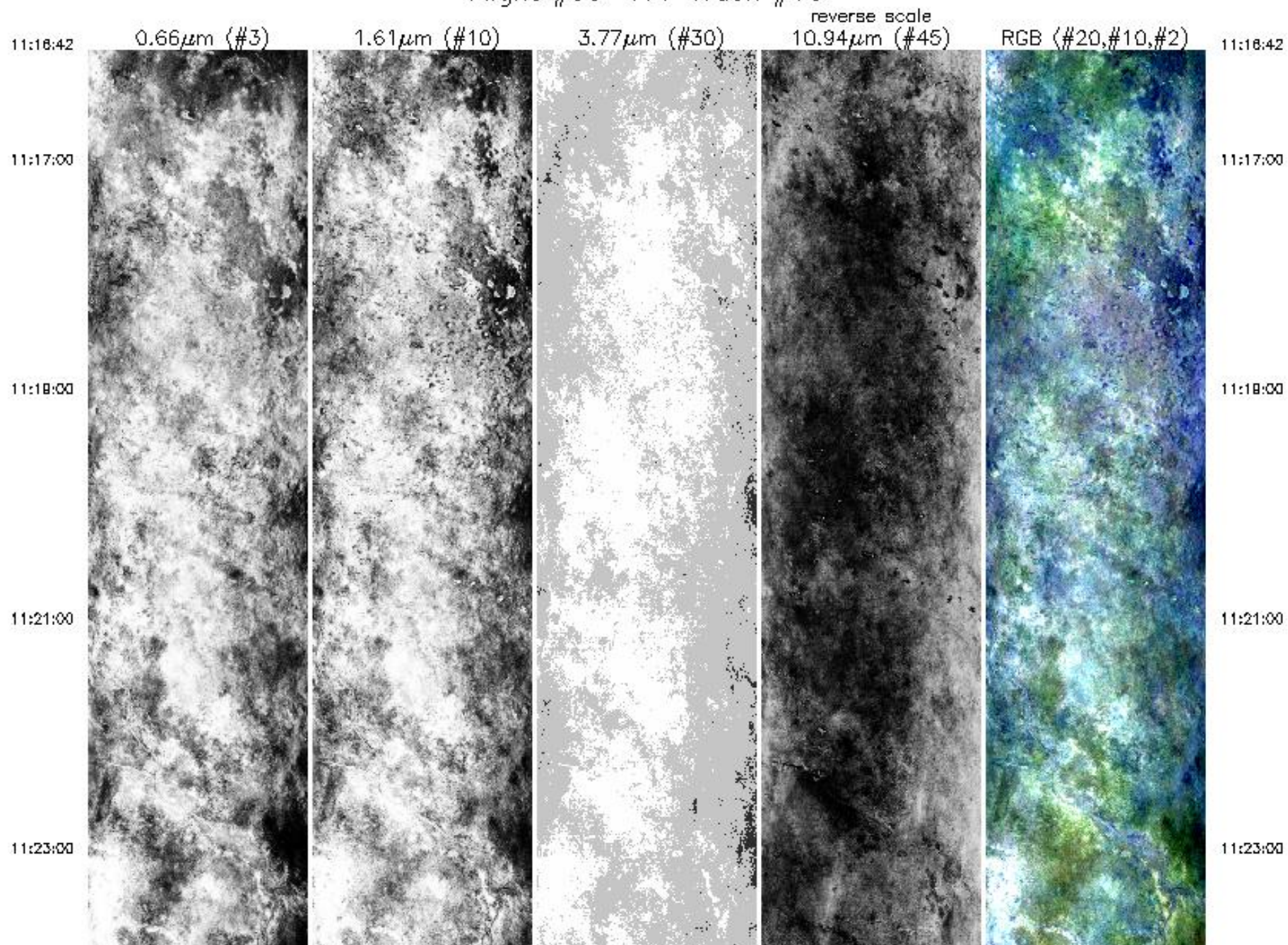
3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20, #10, #2)

Aircraft Heading = 143.8°
Solar Zenith = 27.5°
GPS Altitude = 20658. m (MSL)

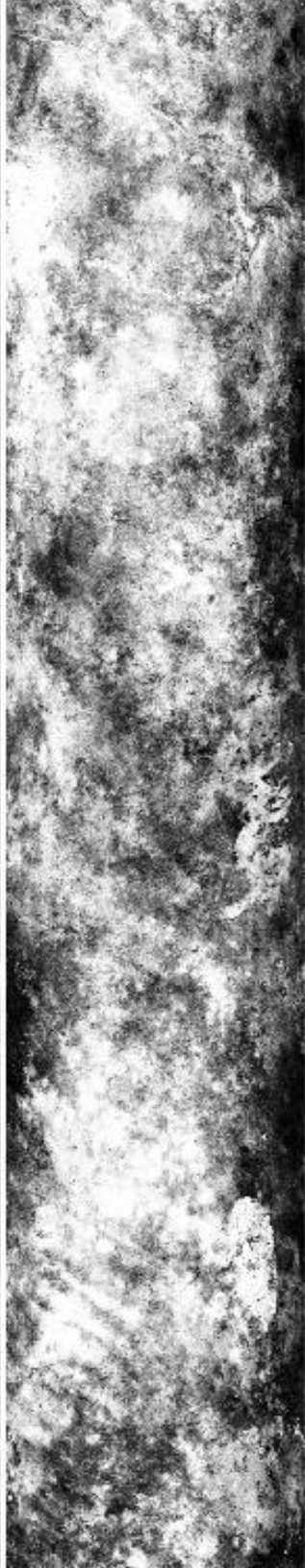
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #15



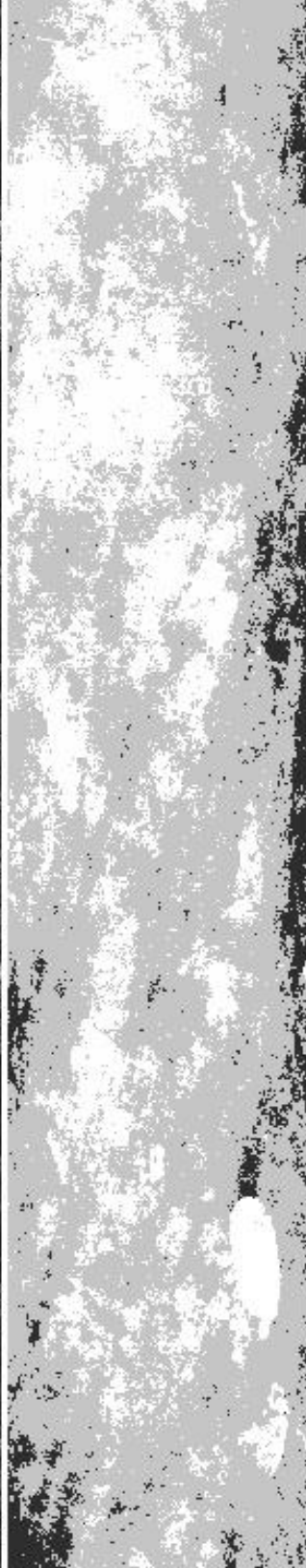
11:23:00



11:25:00



11:27:00



11:28:00



11:31:00



11:23:00

11:25:00

11:27:00

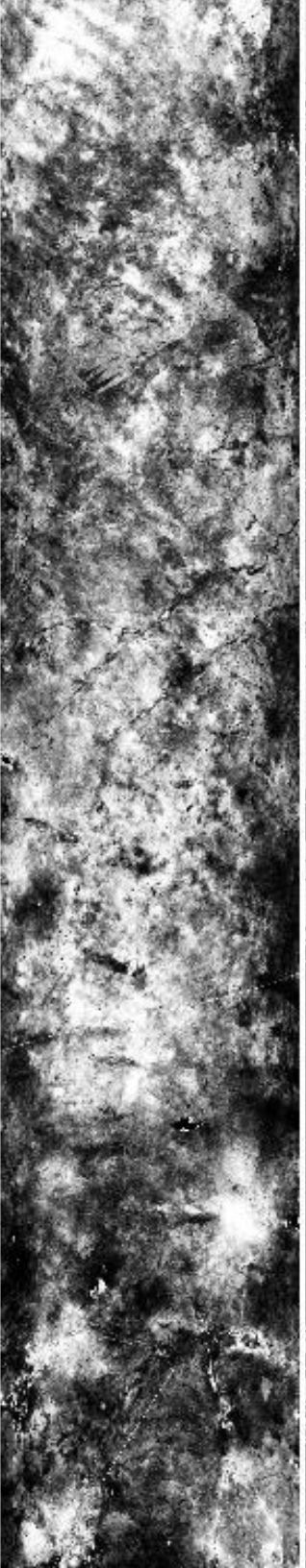
11:28:00

11:31:00

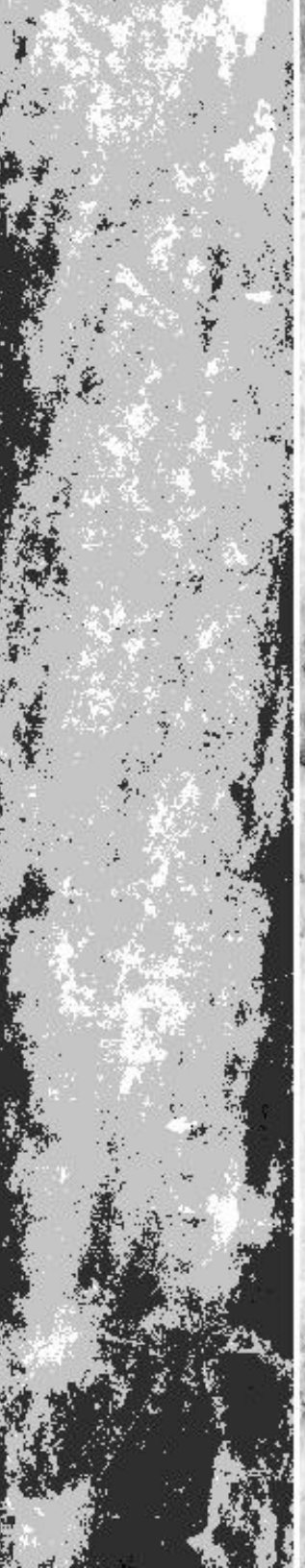
11:31:00



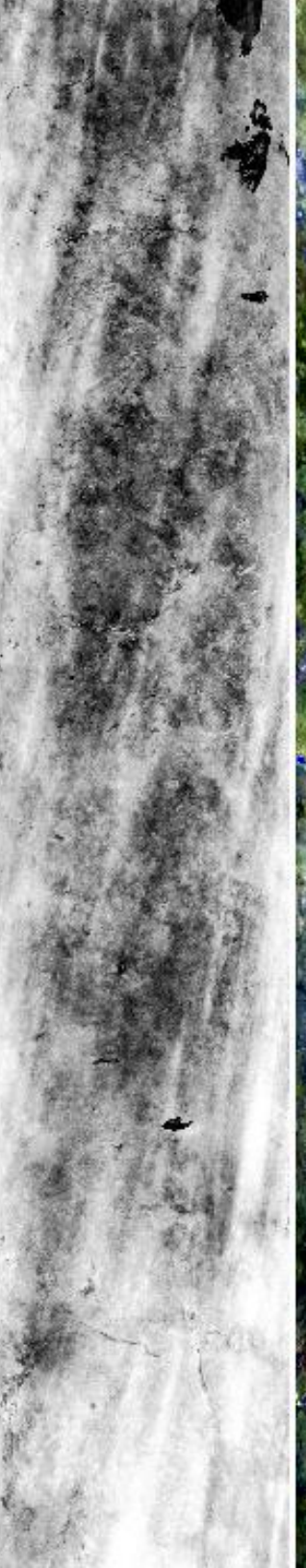
11:33:00



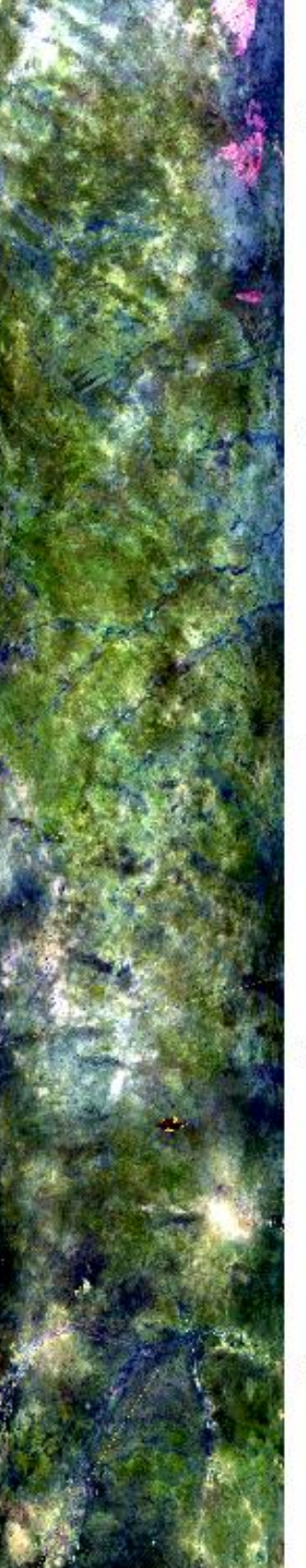
11:35:00



11:37:00



11:39:00



11:31:00

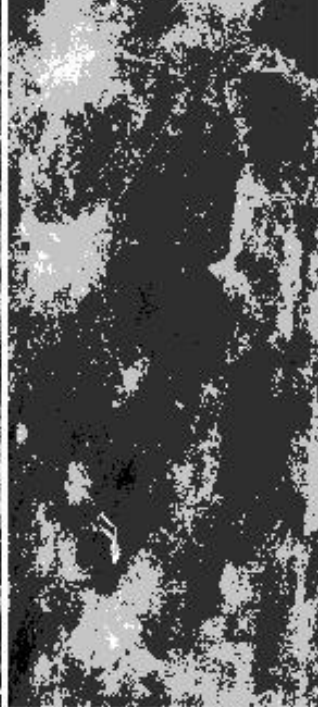
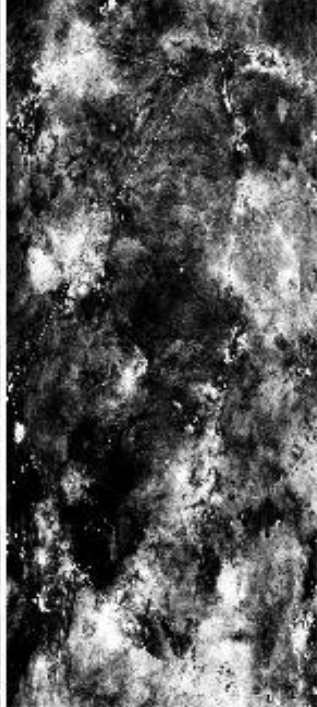
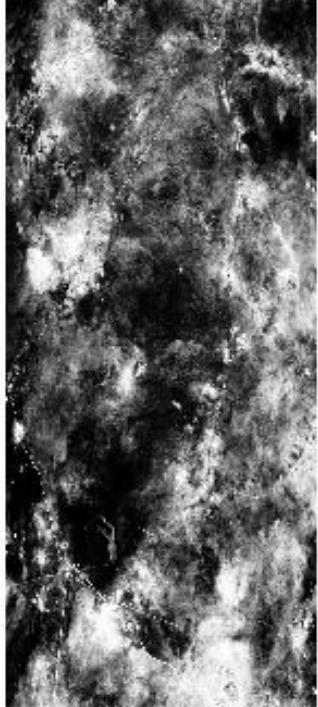
11:33:00

11:35:00

11:37:00

11:39:00

11:39:00



11:39:00

11:41:00

11:41:00

11:43:28

11:43:28

0.66 μ m (#3)

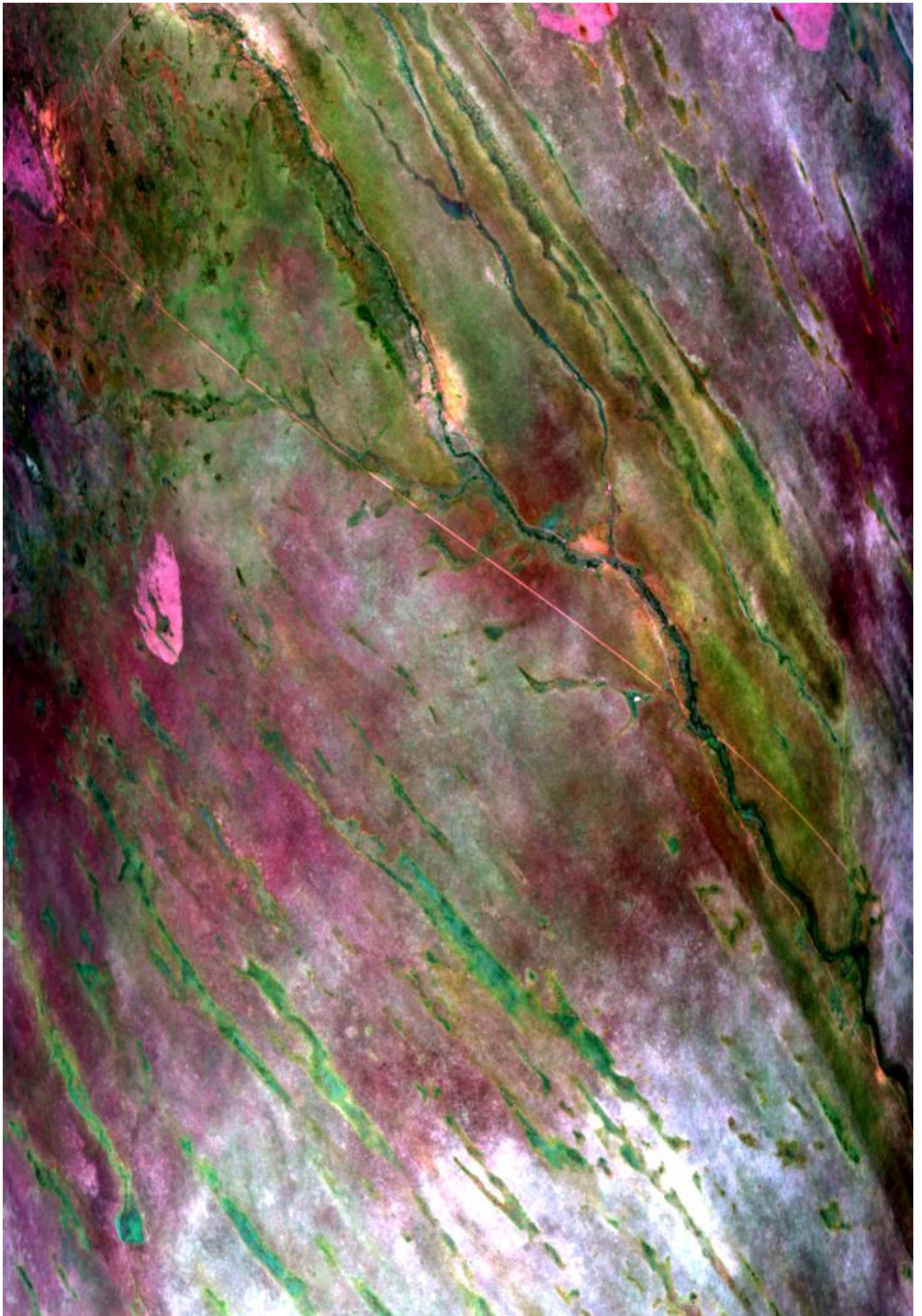
1.61 μ m (#10)

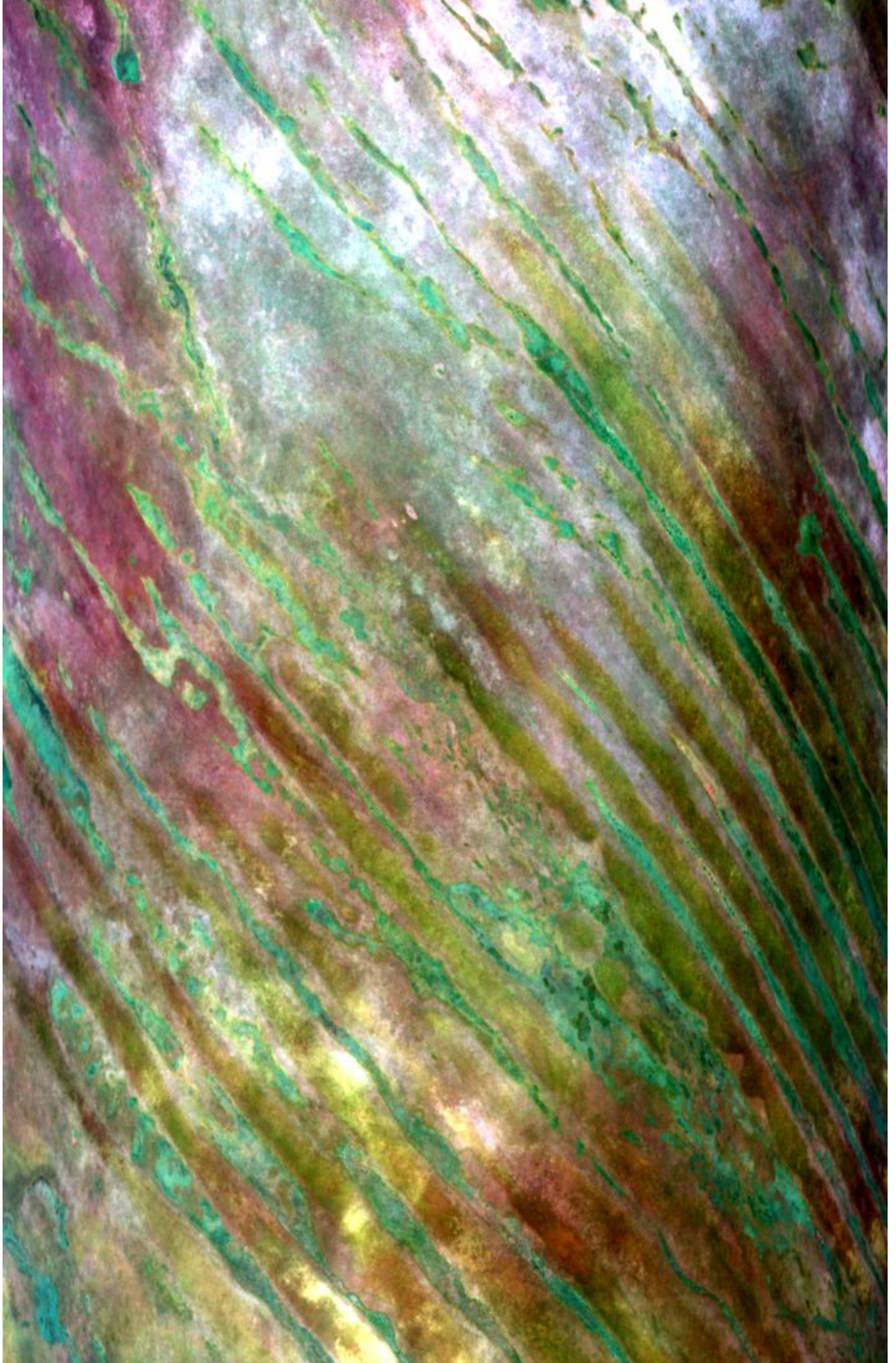
3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

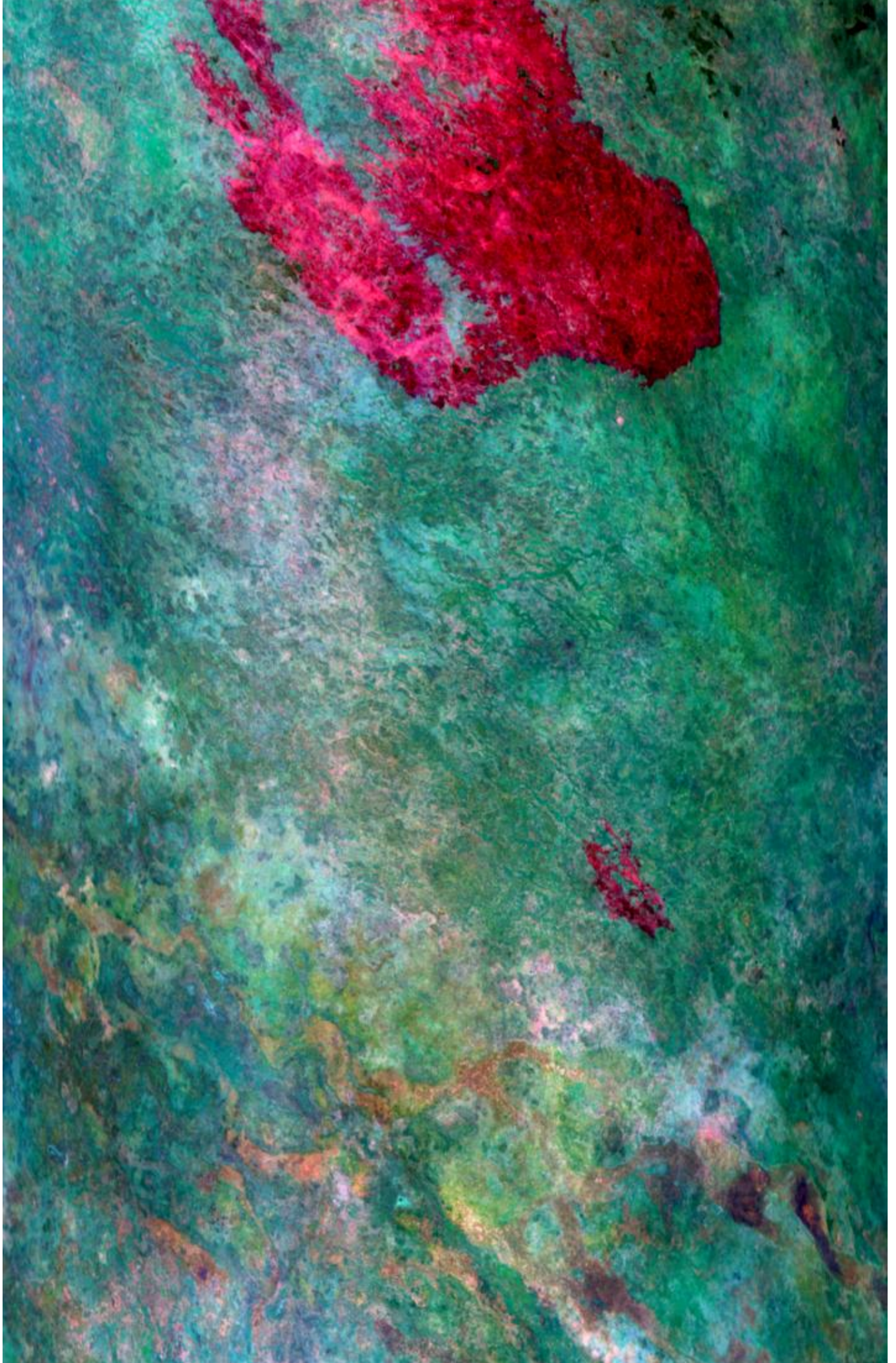
RGB (#20, #10, #2)

Aircraft Heading = 145.5°
Solar Zenith = 26.1°
GPS Altitude = 20368. m (MSL)



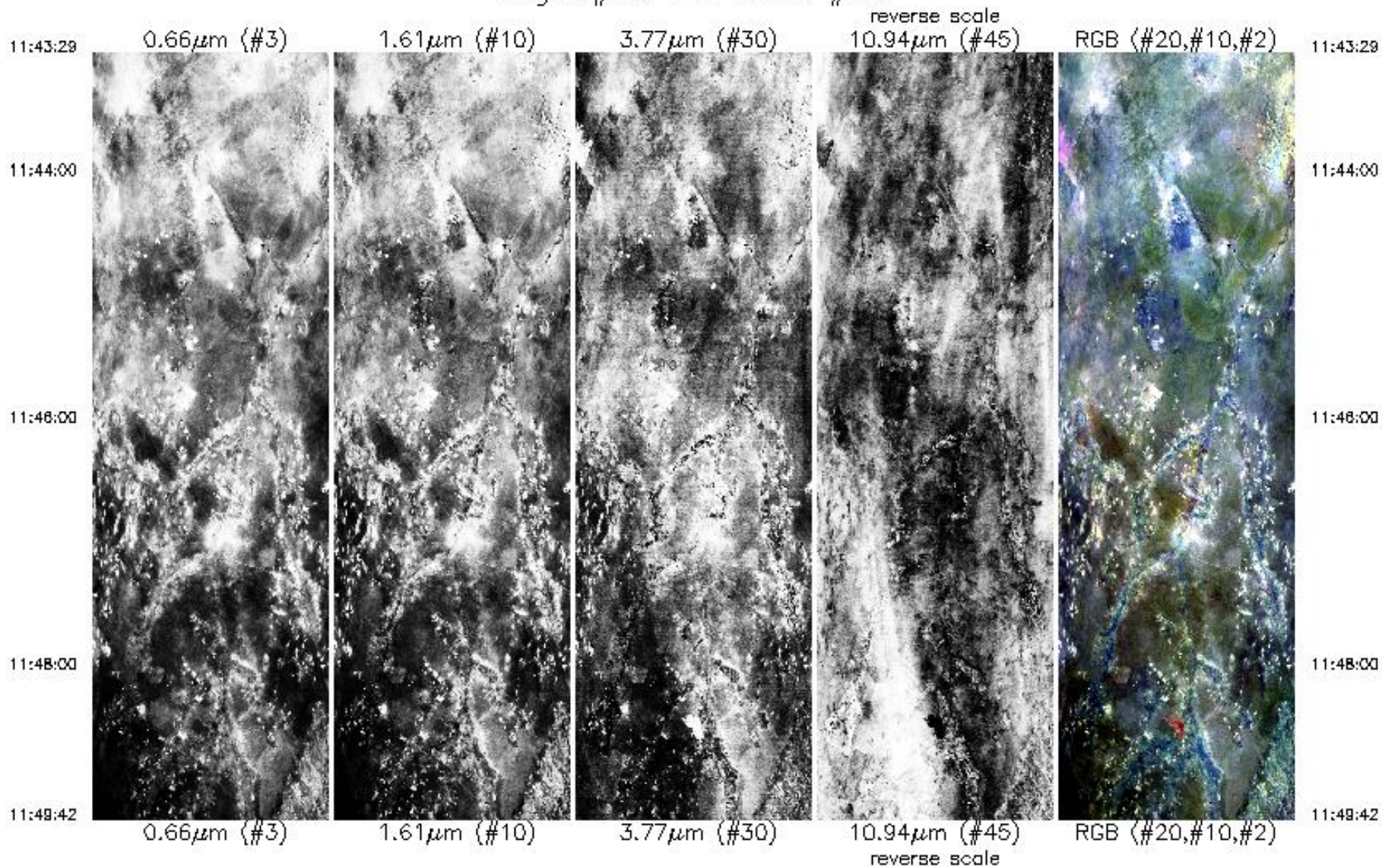








MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #16



Aircraft Heading = 144.7°
Solar Zenith = 26.6°
GPS Altitude = 20311. m (MSL)

11:48:42

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

RGB (#20,#10,#2)

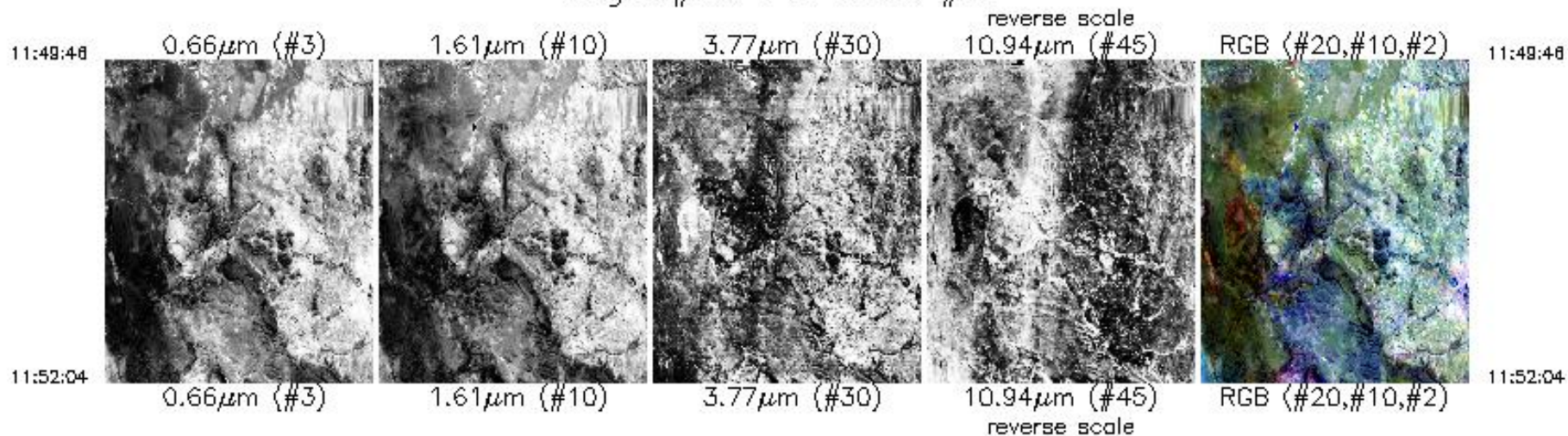
11:48:42

Aircraft Heading = 144.7°

Solar Zenith = 26.6°

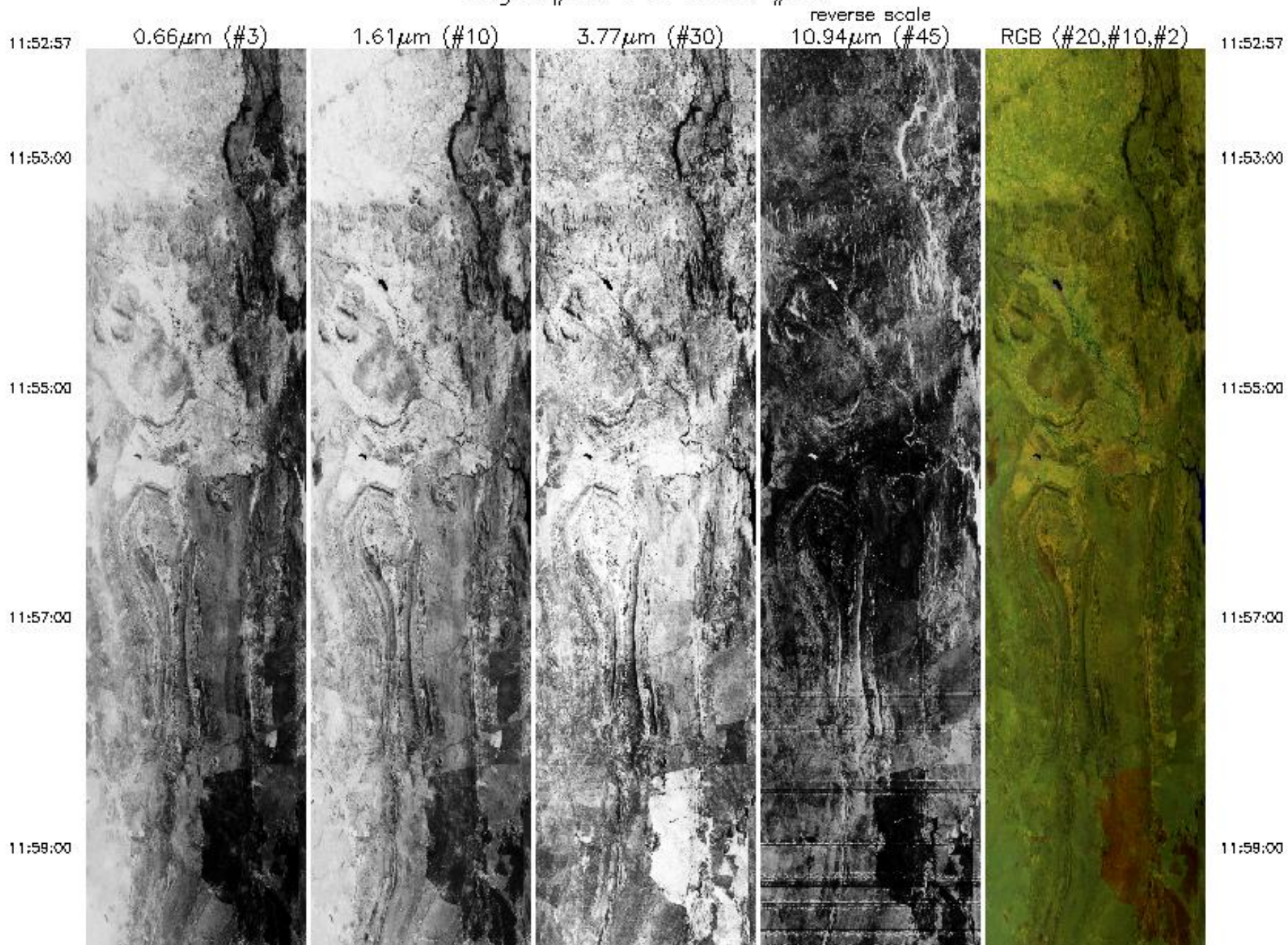
GPS Altitude = 20311. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #17



Aircraft Heading = 151.5°
Solar Zenith = 26.9°
GPS Altitude = 20343. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #18



11:59:00



12:01:00



12:03:00



12:05:00



12:07:00



11:59:00

12:01:00

12:03:00

12:05:00

12:07:00

12:07:00



12:09:00



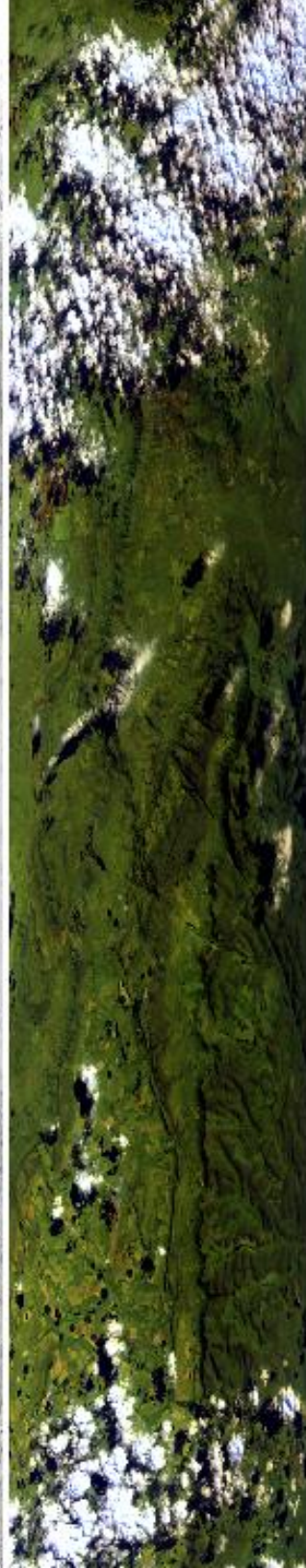
12:11:00



12:13:00



12:15:00



12:07:00

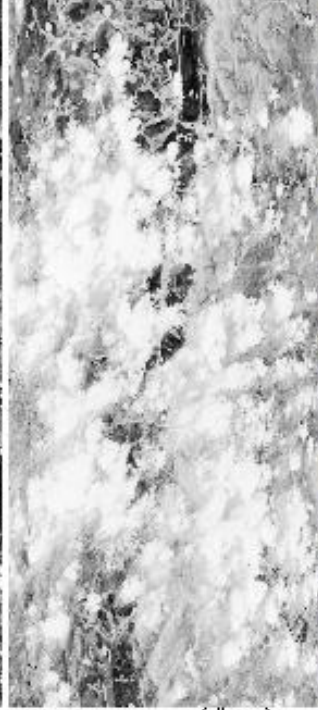
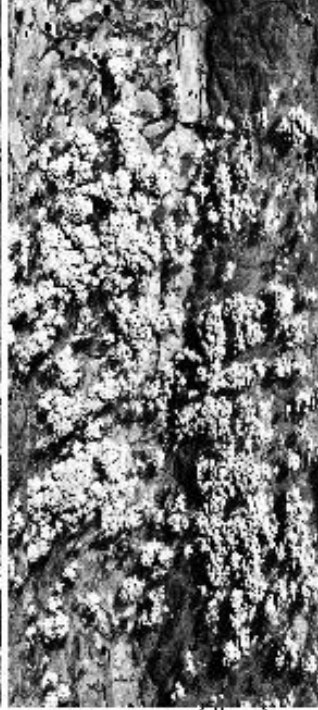
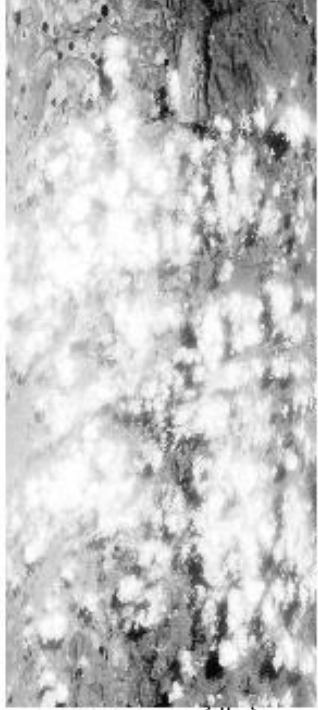
12:09:00

12:11:00

12:13:00

12:15:00

12:15:00



12:15:00

12:17:00

12:17:00

12:18:44

12:18:44

0.66 μm (#3)

1.61 μm (#10)

3.77 μm (#30)

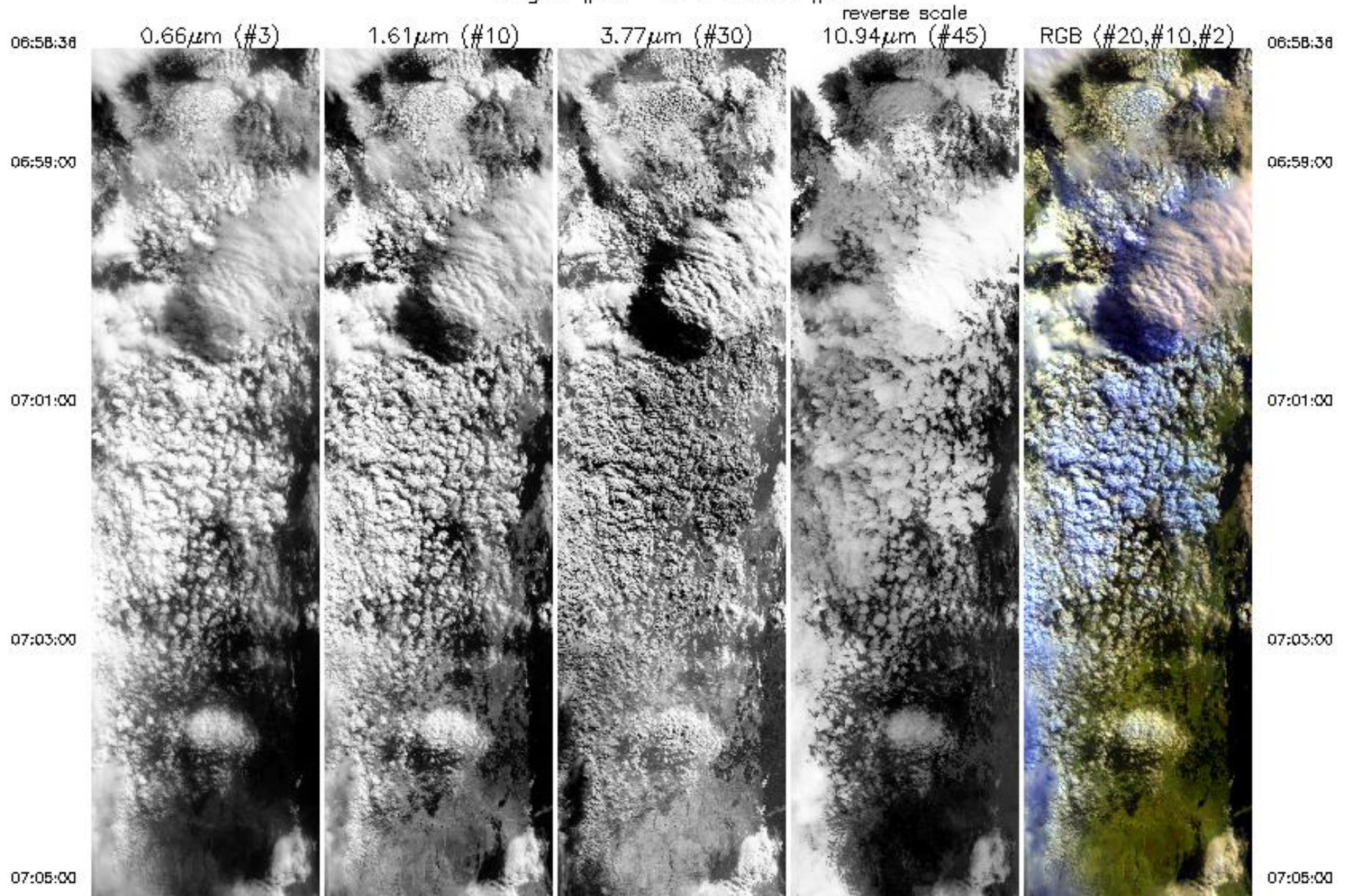
10.94 μm (#45)
reverse scale

RGB (#20, #10, #2)

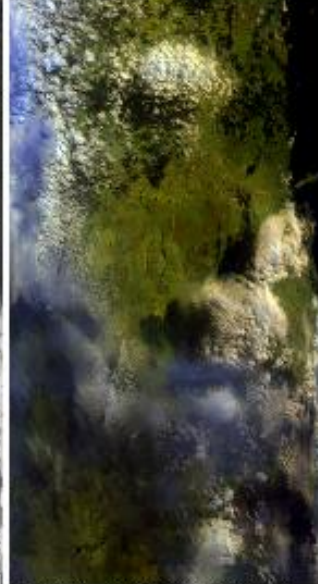
Aircraft Heading = 82.7°
Solar Zenith = 27.2°
GPS Altitude = 20194. m (MSL)

Flight #00-177 Browse Imagery

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #1



07:05:00



07:05:00

07:07:29

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)

RGB (#20,#10,#2)

07:07:29

reverse scale

Aircraft Heading = 192.9°

Solar Zenith = 77.6°

GPS Altitude = 18743. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign - 17 Sep 2000

South Africa

Flight #00-177 Track #2

07:07:57

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)

RGB (#20,#10,#2)

07:07:57

reverse scale

07:08:00



07:08:00

07:10:00

07:10:00

07:10:00



07:12:00



07:14:00



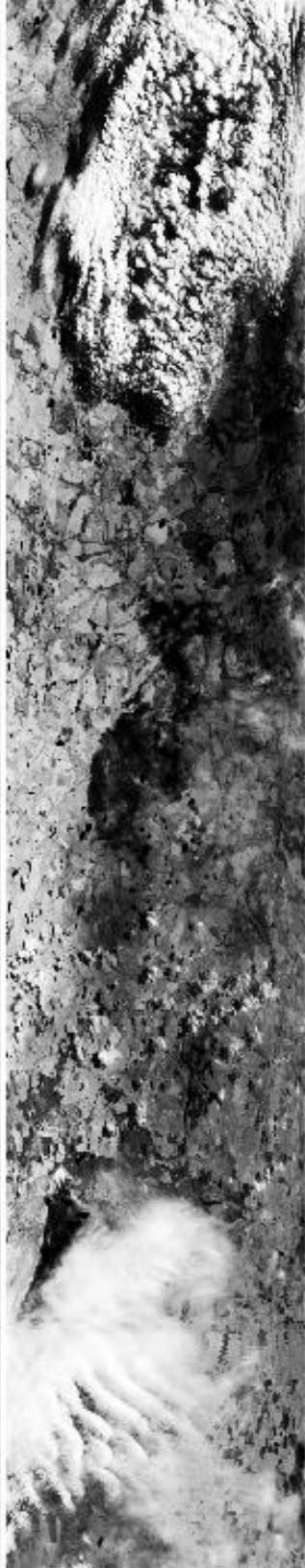
07:16:00



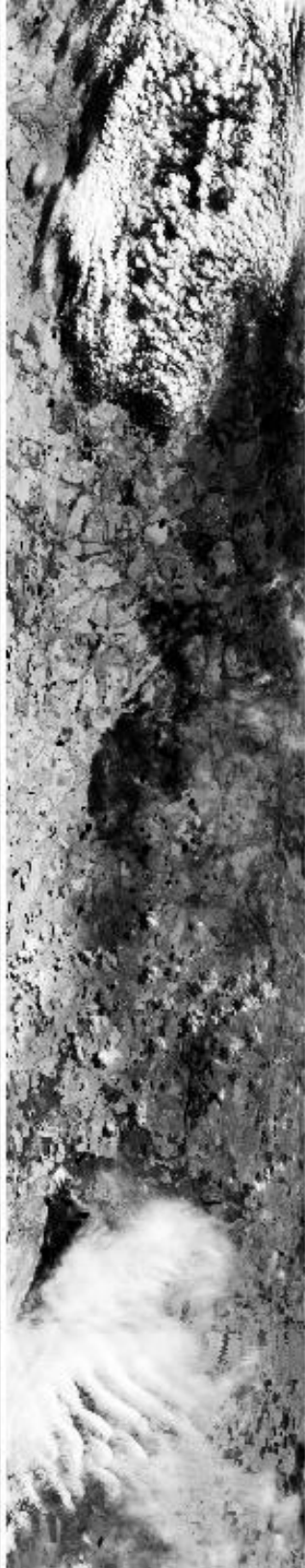
07:18:00



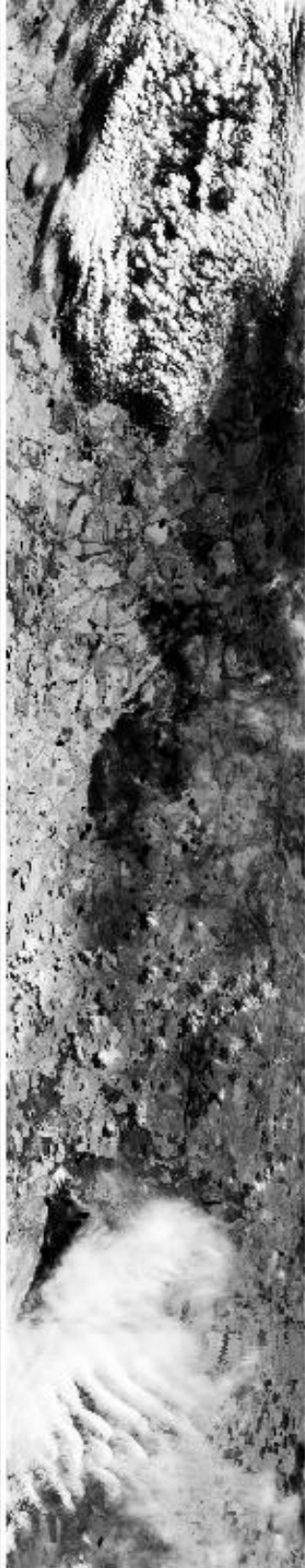
07:10:00



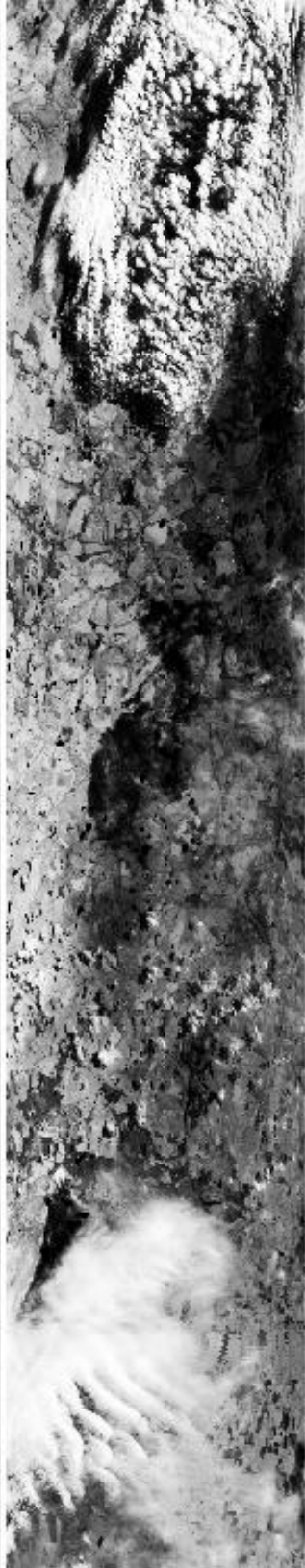
07:12:00



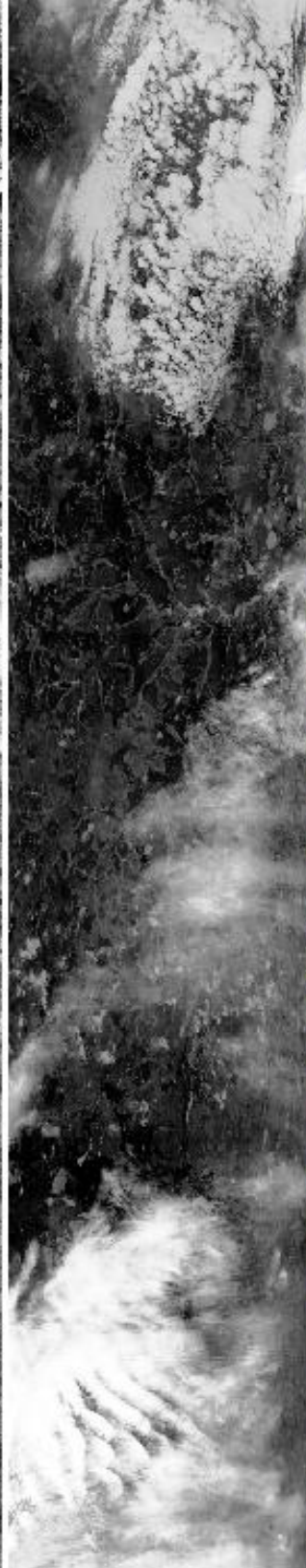
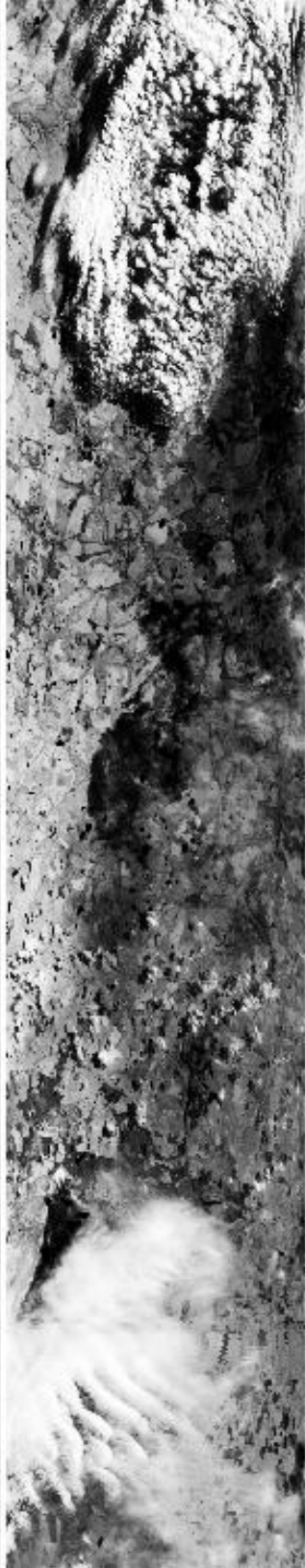
07:14:00



07:16:00



07:18:00



07:10:00

07:12:00

07:14:00

07:16:00

07:18:00

07:18:00



0.66 μ m (#3)



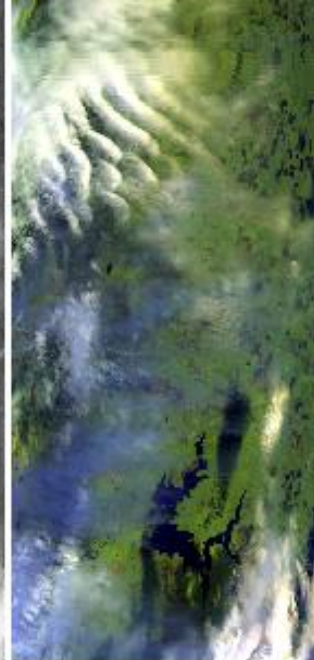
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

07:20:00

07:22:08

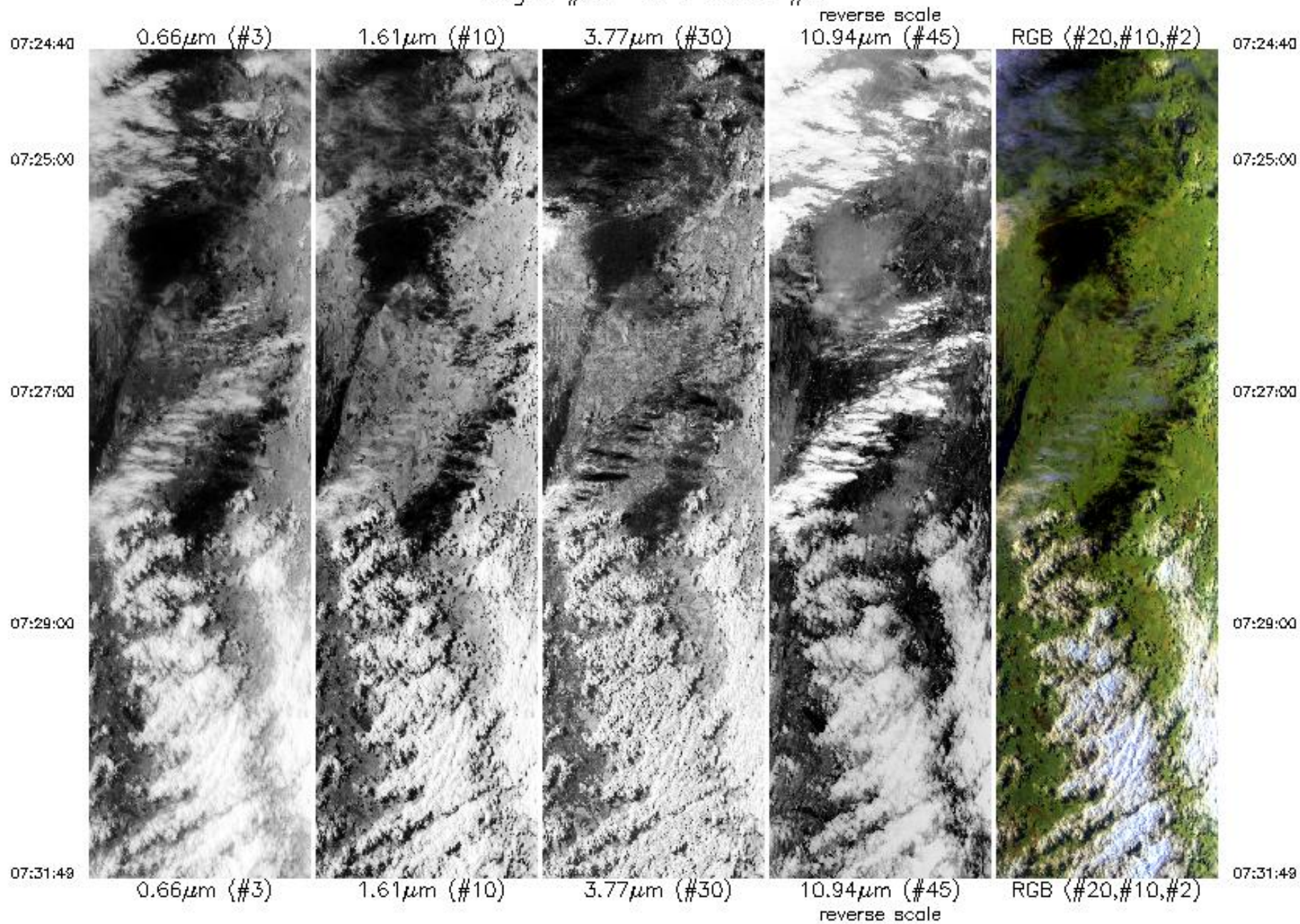
07:18:00

07:20:00

07:22:08

Aircraft Heading = 170.2°
Solar Zenith = 75.6°
GPS Altitude = 19394. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #3

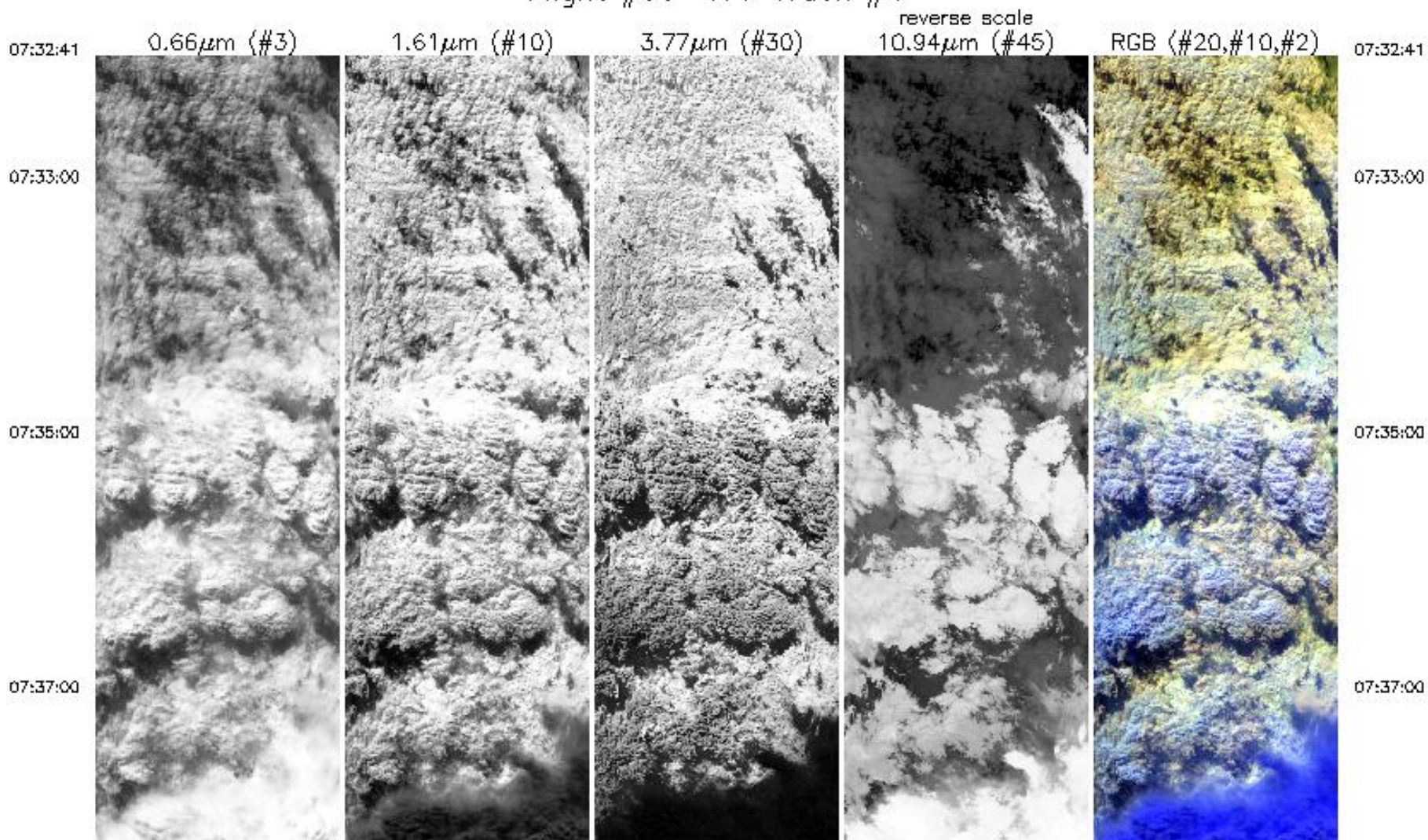


Aircraft Heading = 309.5°

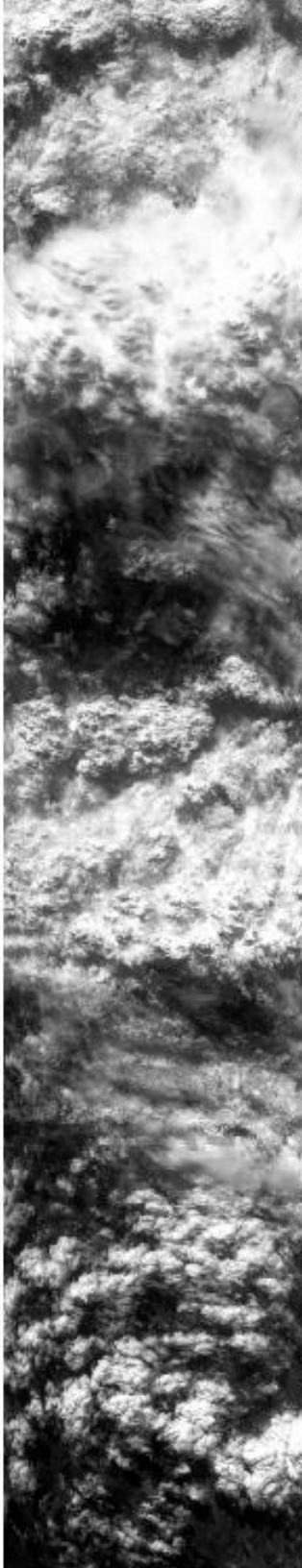


Aircraft Heading = 309.5°
 Solar Zenith = 72.2°
 GPS Altitude = 19537. m (MSL)

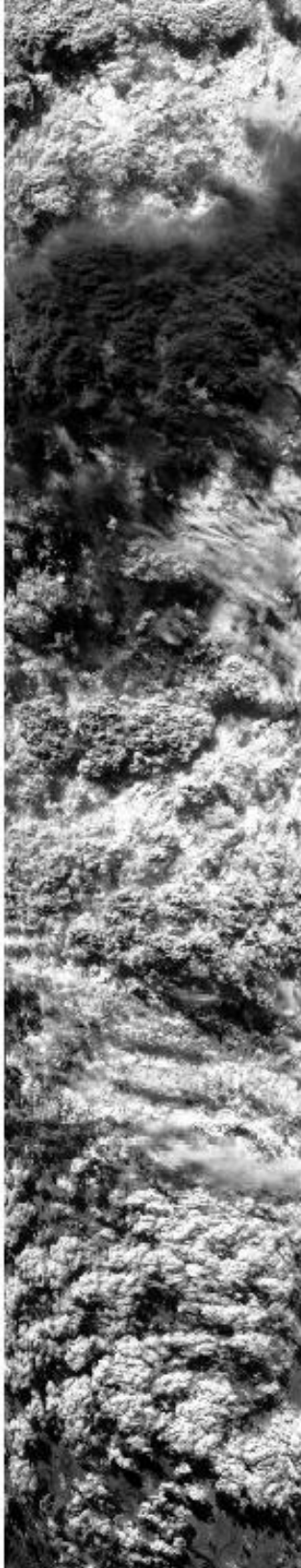
MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 17 Sep 2000
 South Africa
 Flight #00-177 Track #4



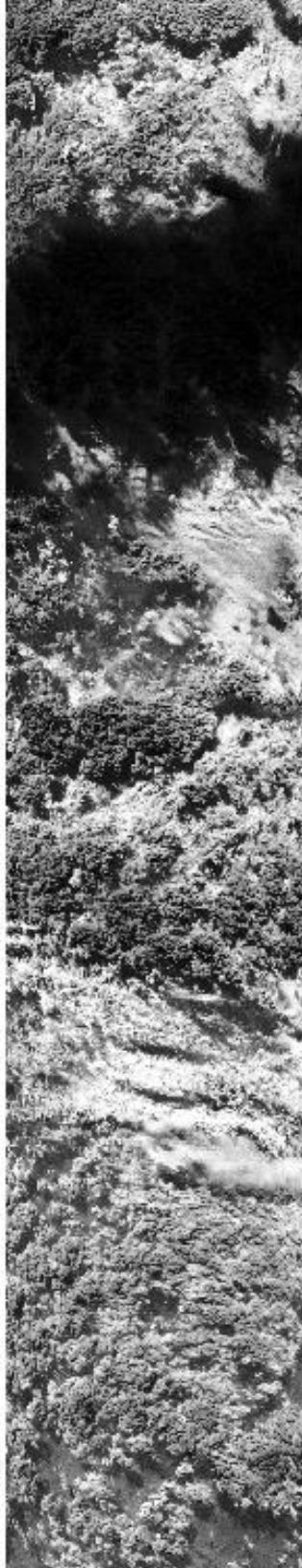
07:37:00



07:38:00



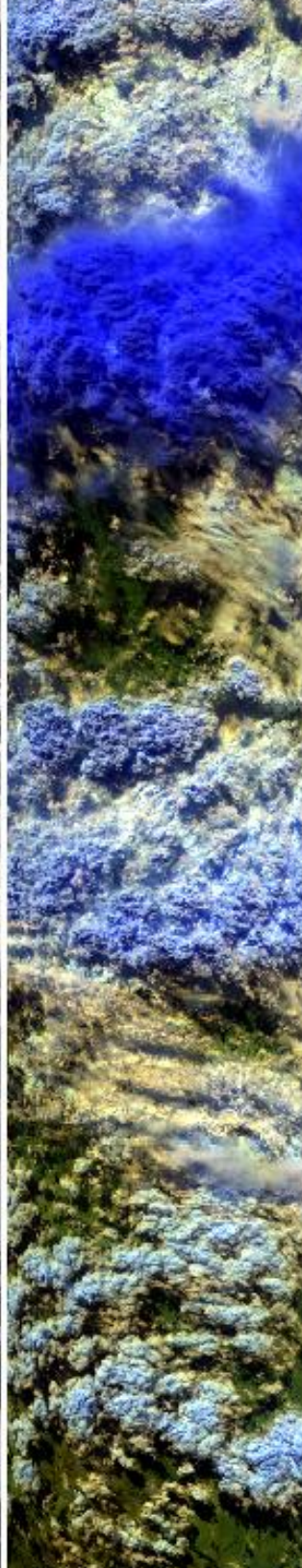
07:41:00



07:43:00



07:45:00



07:37:00

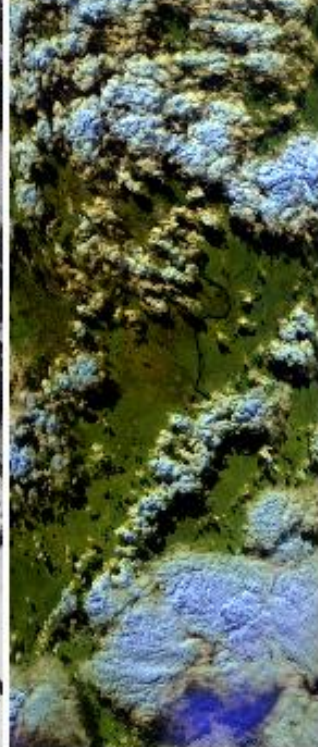
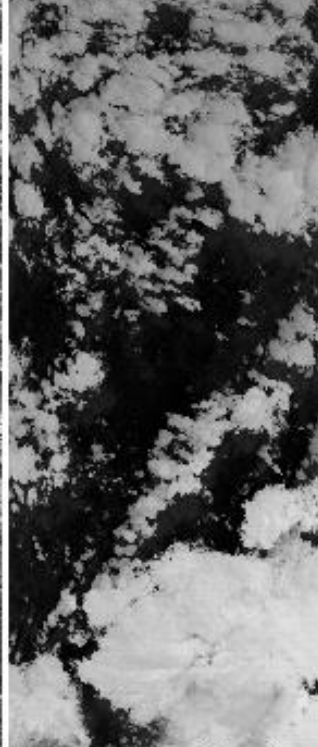
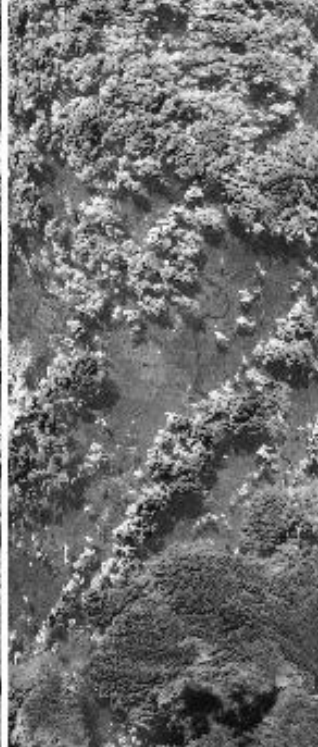
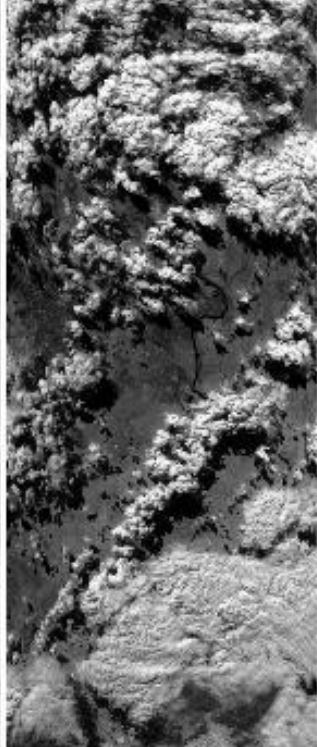
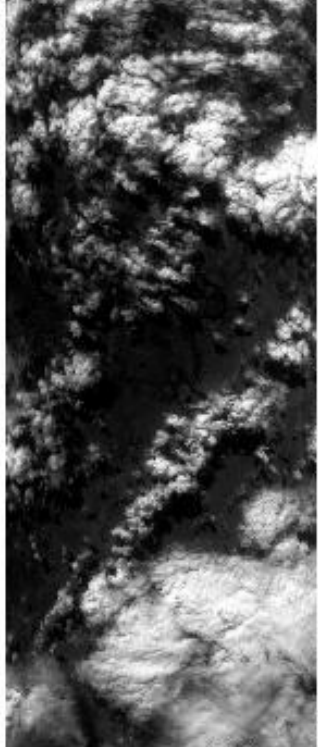
07:38:00

07:41:00

07:43:00

07:45:00

07:45:00



07:45:00

07:47:00

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)

RGB (#20,#10,#2)

07:47:00

07:48:51

reverse scale

07:48:51

Aircraft Heading = 262.9°

Solar Zenith = 70.4°

GPS Altitude = 19557. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign - 17 Sep 2000

South Africa

Flight #00-177 Track #5

07:51:08

0.66µm (#3)

1.61µm (#10)

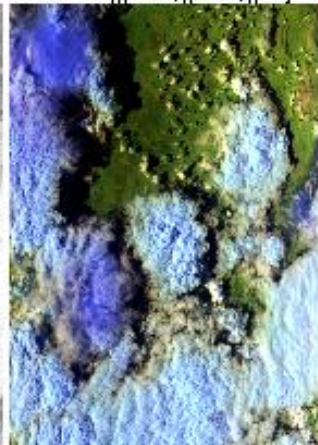
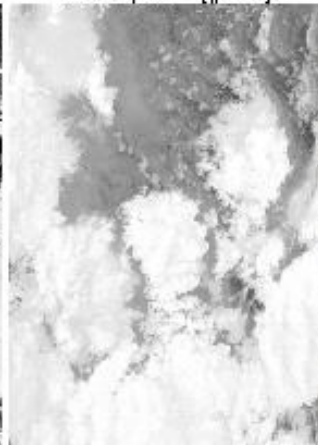
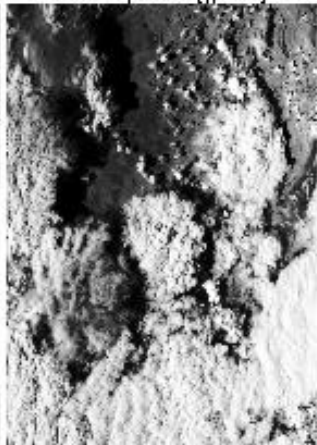
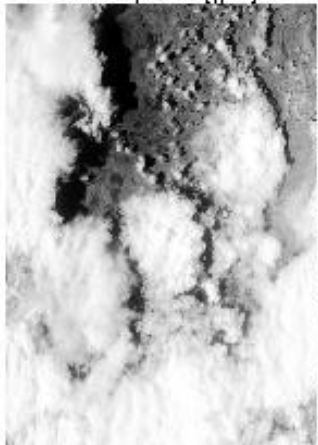
3.77µm (#30)

10.94µm (#45)

RGB (#20,#10,#2)

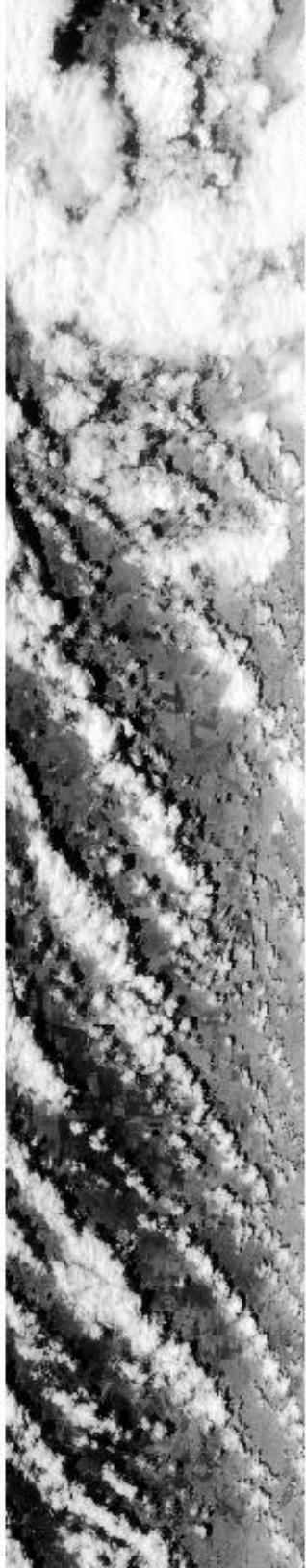
07:51:08

07:52:00

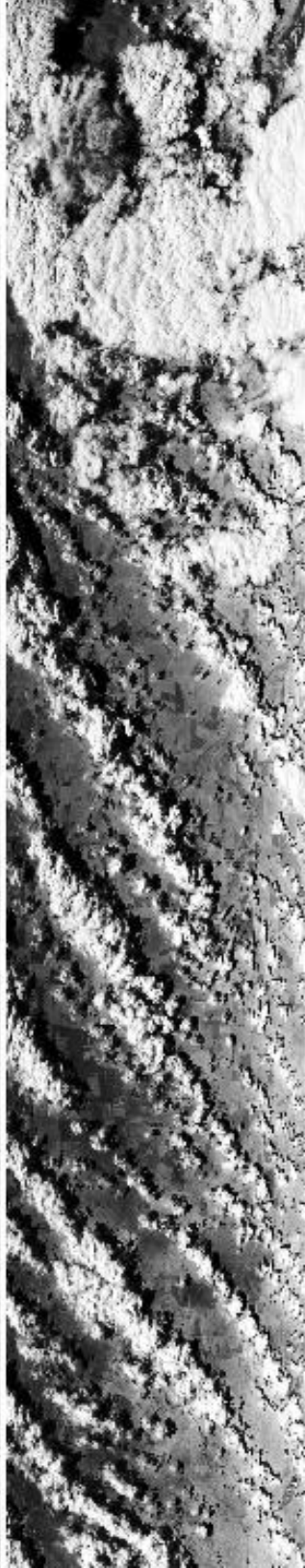


07:52:00

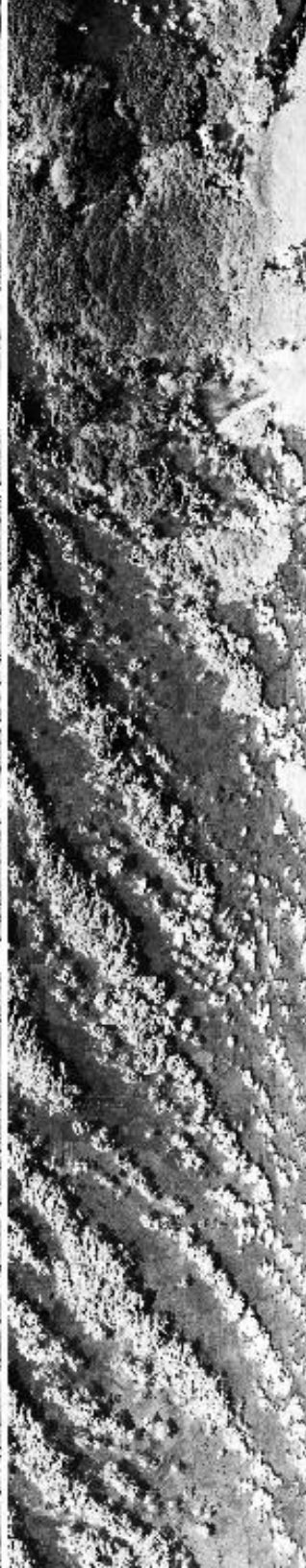
07:52:00



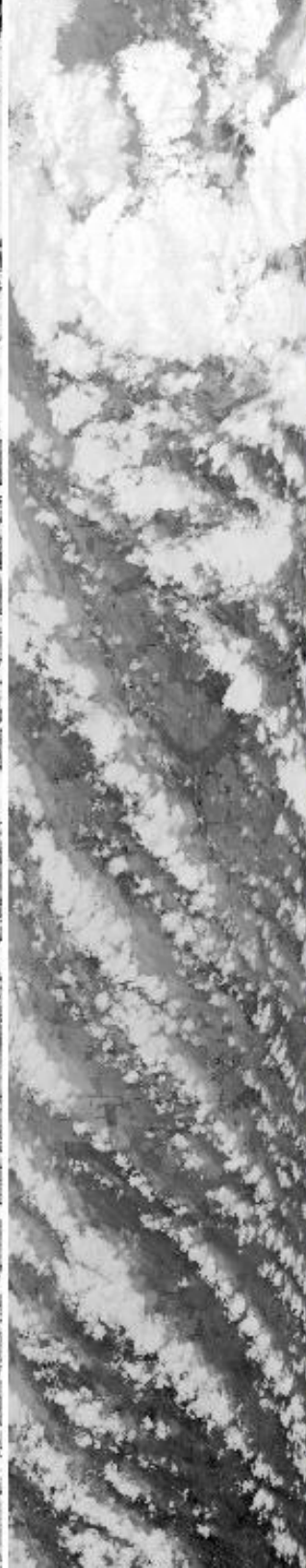
07:54:00



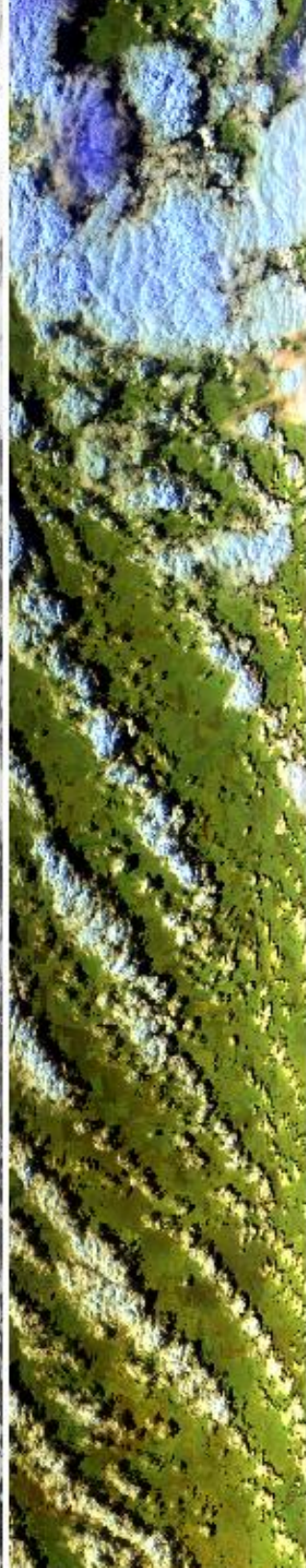
07:56:00



07:58:00



08:00:00



07:52:00

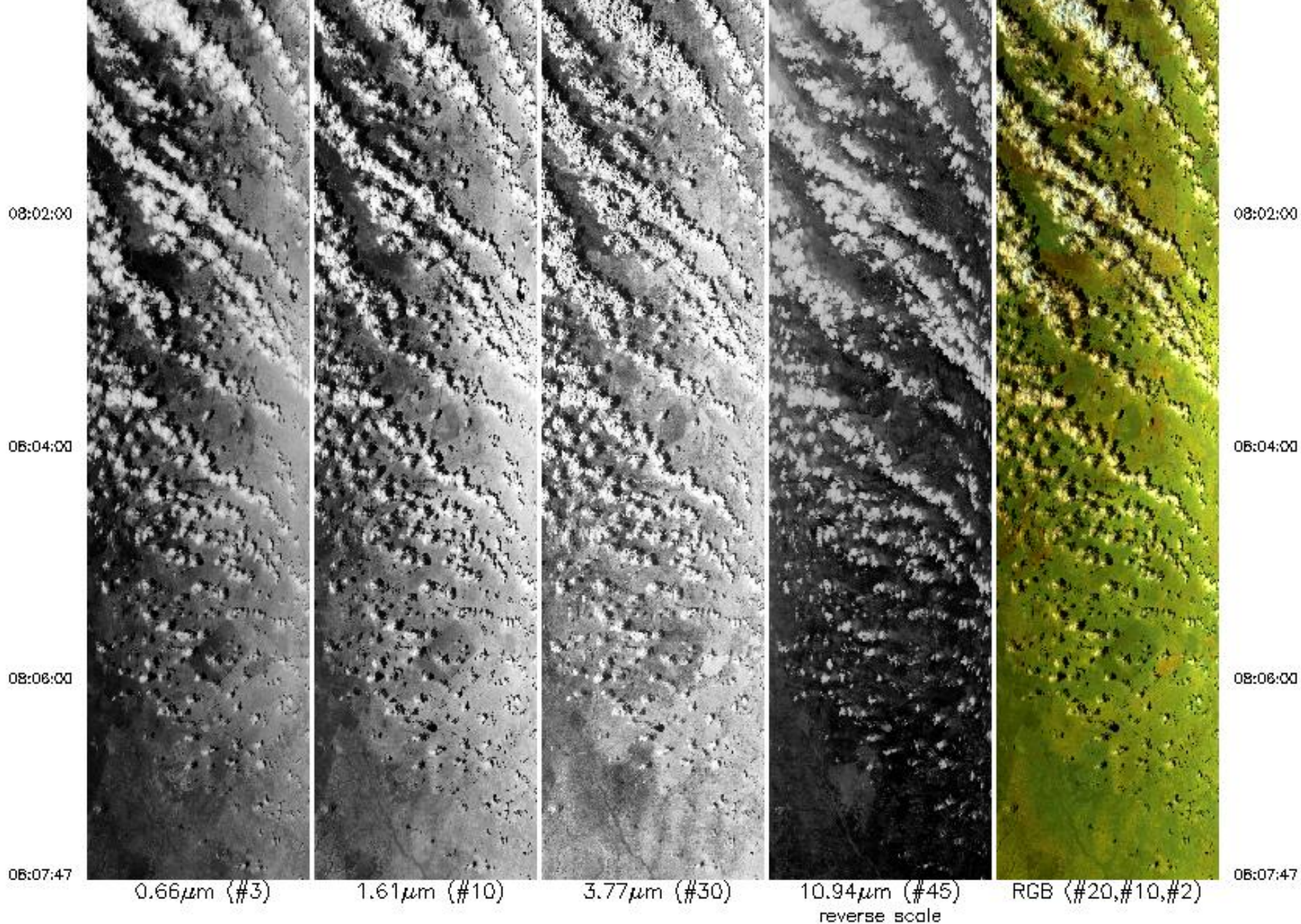
07:54:00

07:56:00

07:58:00

08:00:00

08:00:00



Aircraft Heading = 335.5°

Solar Zenith = 66.5°

GPS Altitude = 19644. m (MSL)

MODIS Airborne Simulator Browse Imagery

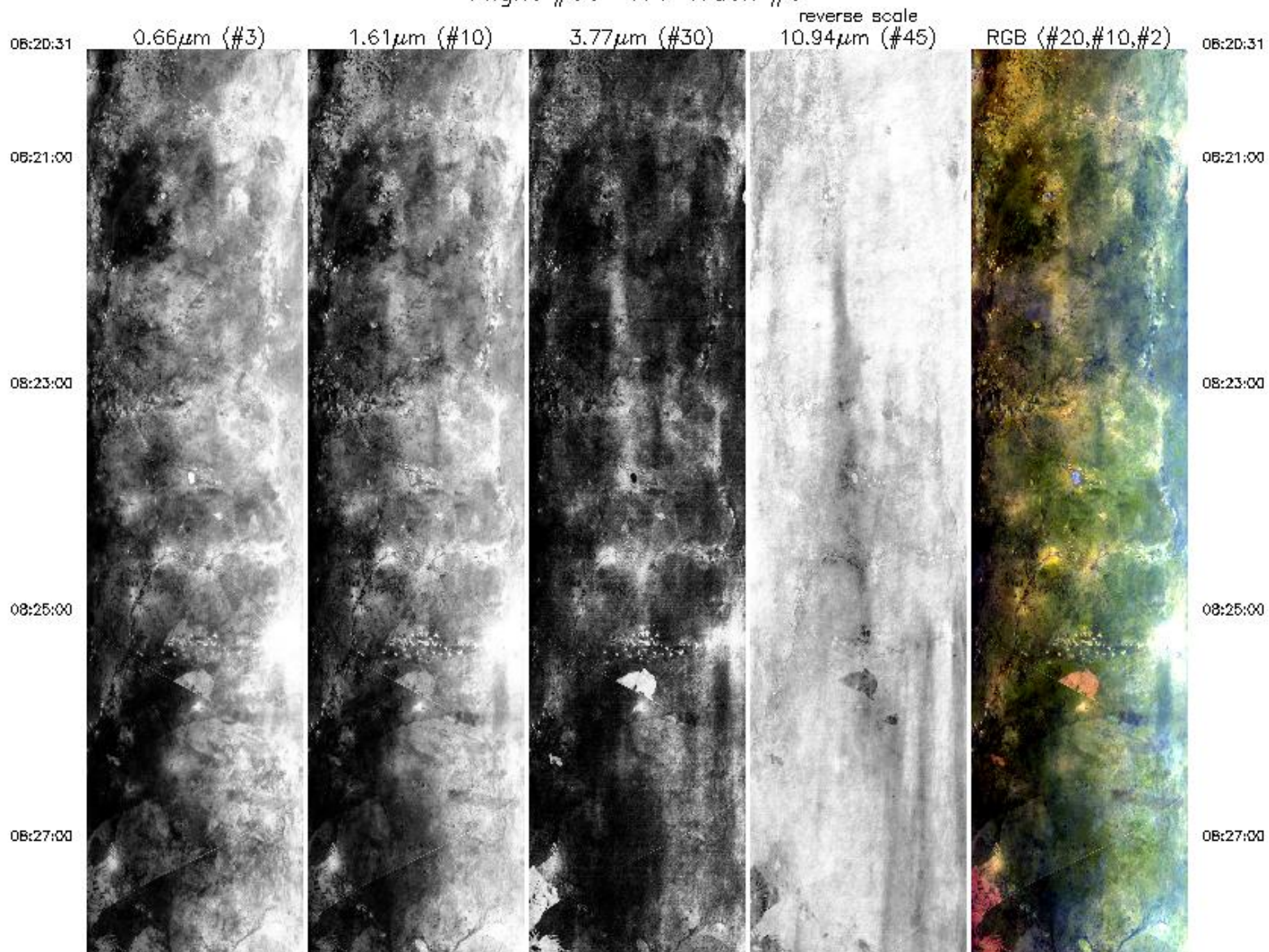
SAFARI 2000 Campaign – 17 Sep 2000

South Africa

Flight #00-177 Track #6

reverse scale

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #6



08:27:00



08:29:00



08:31:00



08:33:00



08:35:00



08:27:00

08:29:00

08:31:00

08:33:00

08:35:00

08:35:00



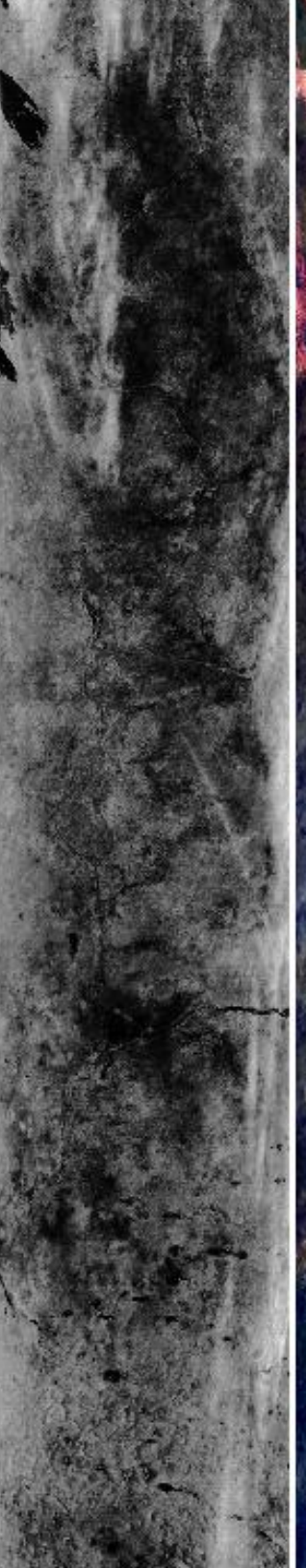
08:37:00



08:39:00



08:41:00



08:43:00



08:35:00

08:37:00

08:39:00

08:41:00

08:43:00

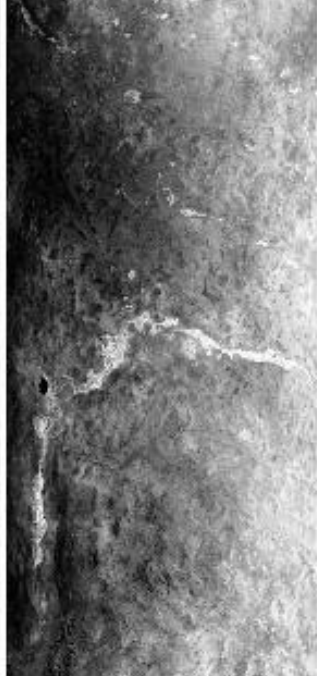
08:43:00

08:45:00

08:47:17



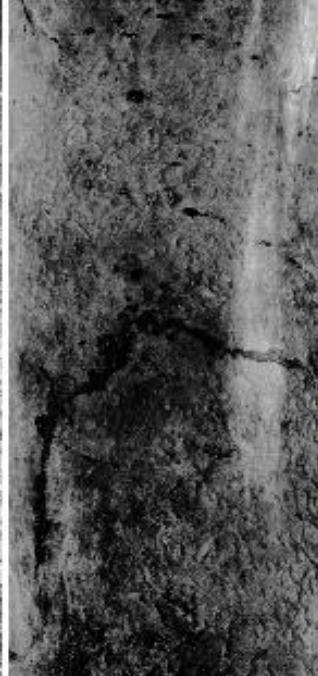
0.66µm (#3)



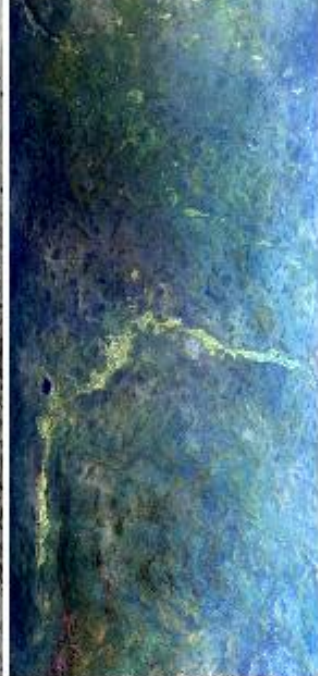
1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

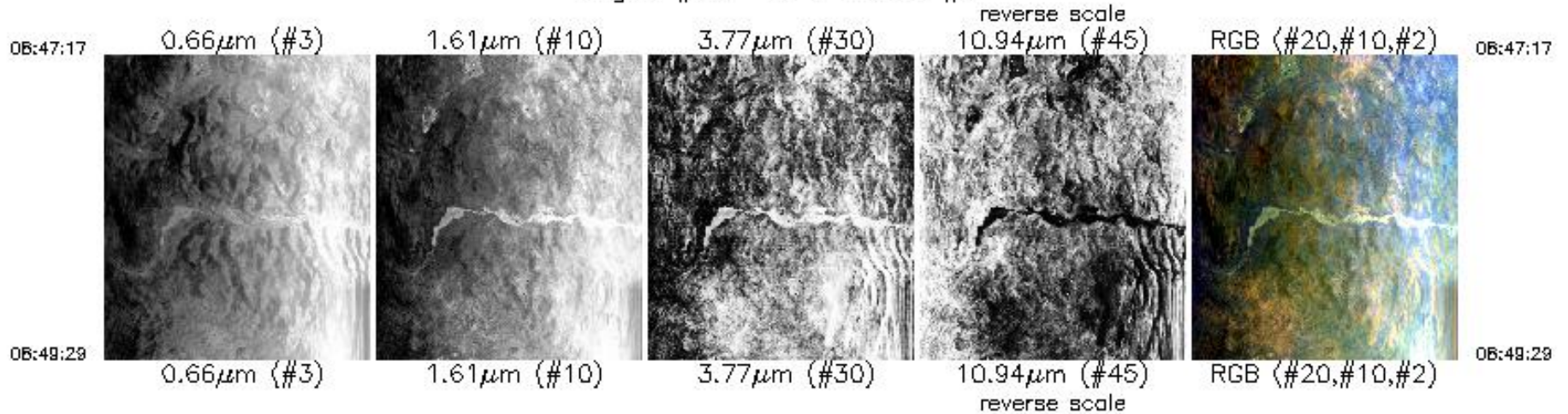
08:43:00

08:45:00

08:47:17

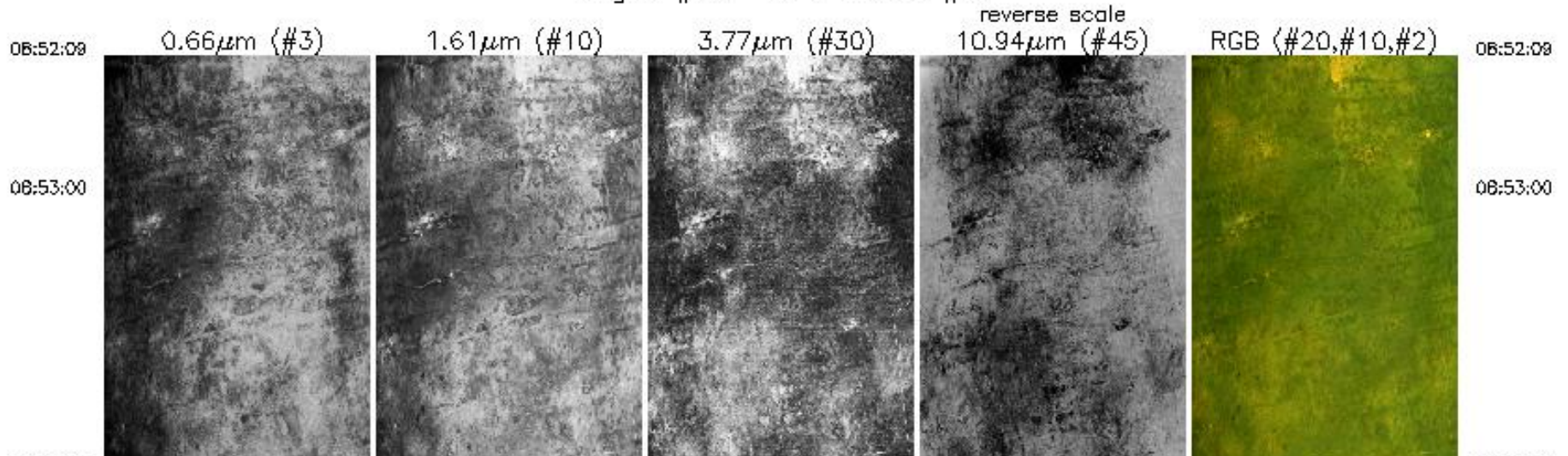
Aircraft Heading = 337.2°
Solar Zenith = 59.3°
GPS Altitude = 19786. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 17 Sep 2000
 South Africa
 Flight #00-177 Track #7



Aircraft Heading = 338.5°
 Solar Zenith = 52.6°
 GPS Altitude = 19912. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 17 Sep 2000
 Botswana
 Flight #00-177 Track #8



08:55:00



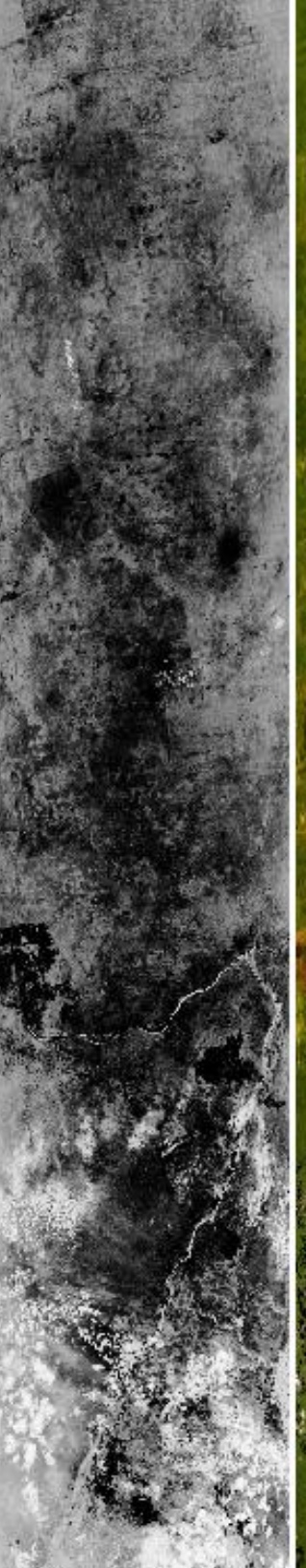
08:57:00



08:59:00



09:01:00



09:03:00



08:55:00

08:57:00

08:59:00

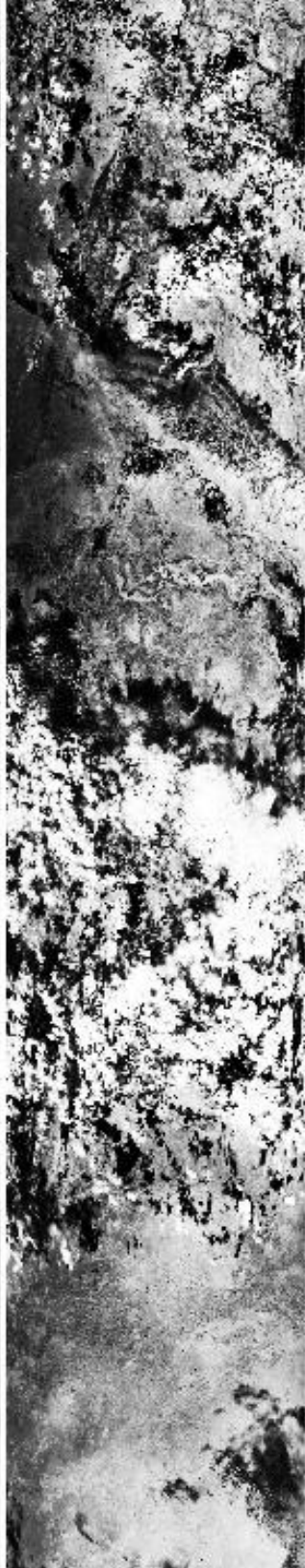
09:01:00

09:03:00

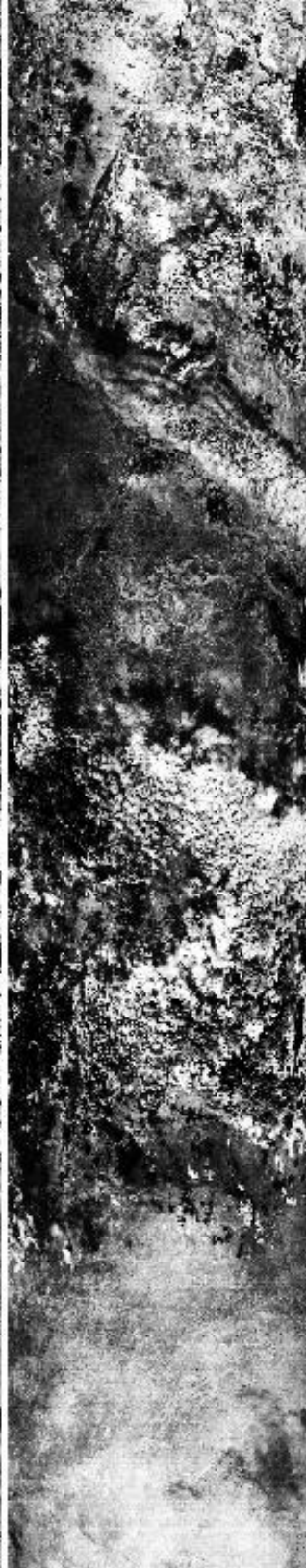
09:03:00



09:05:00



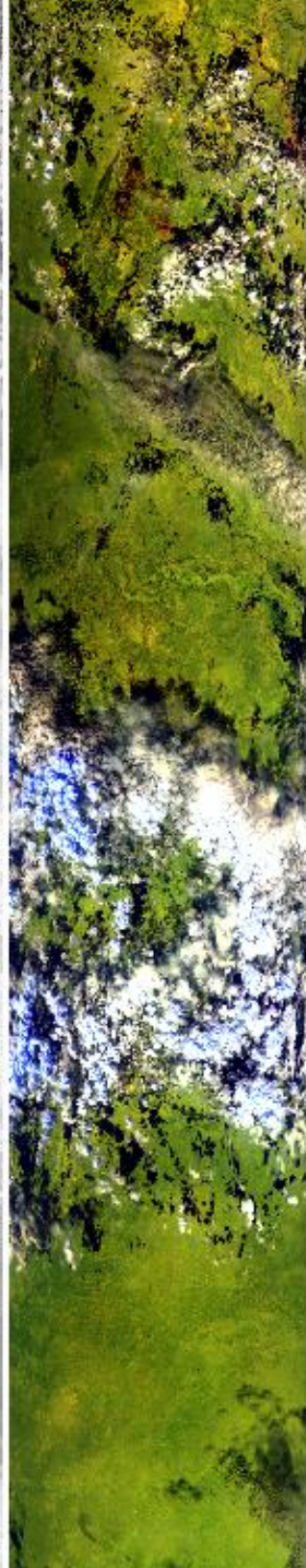
09:07:00



09:09:00



09:11:00



09:03:00

09:05:00

09:07:00

09:09:00

09:11:00

09:11:00



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



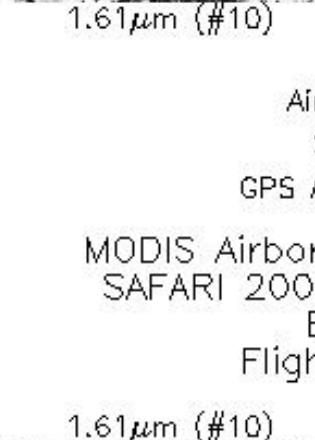
RGB (#20,#10,#2)

09:11:00

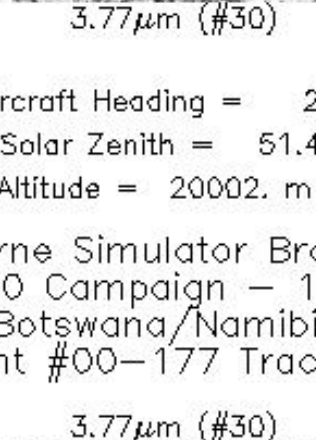
09:13:24



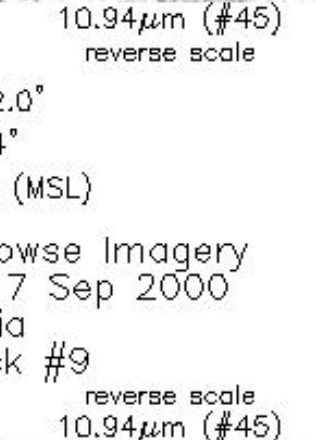
0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (#20,#10,#2)

09:13:24

Aircraft Heading = 2.0°

Solar Zenith = 51.4°

GPS Altitude = 20002. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 17 Sep 2000

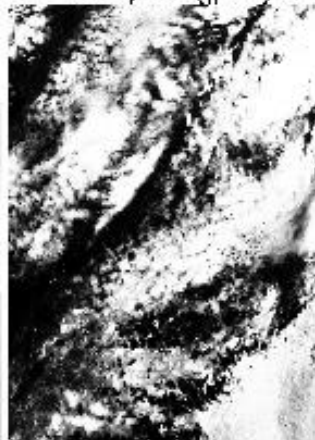
Botswana/Namibia

Flight #00-177 Track #9

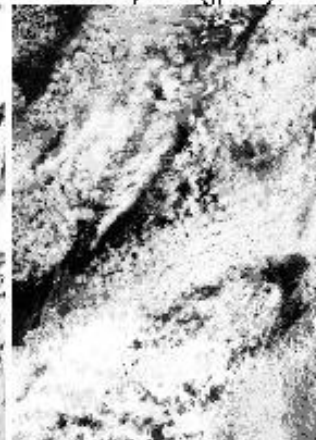
09:15:11



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (#20,#10,#2)

09:15:11

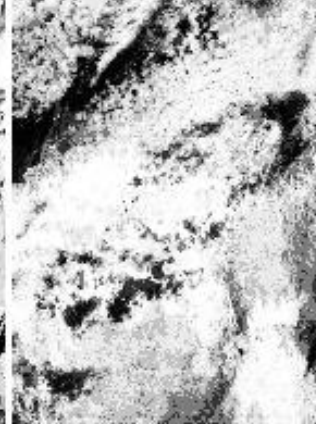
09:16:00



0.66µm (#3)



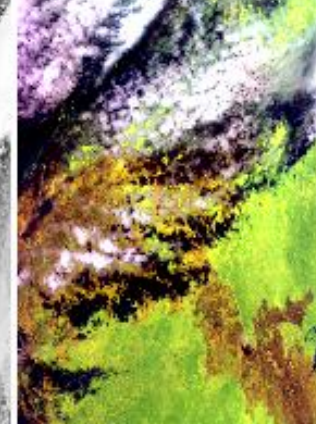
1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (#20,#10,#2)

09:16:00

09:18:00



0.66µm (#3)



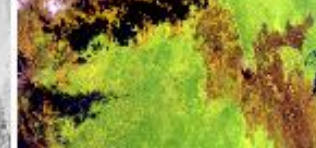
1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (#20,#10,#2)

09:18:00

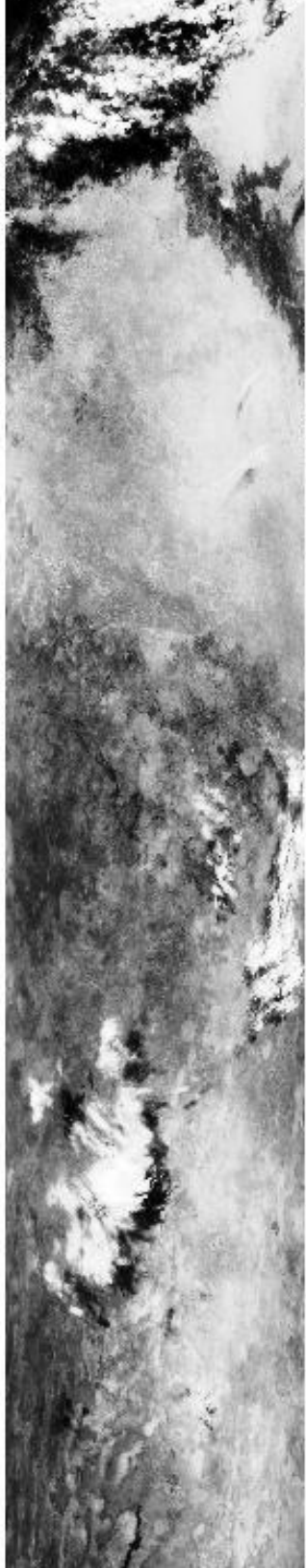
09:18:00

09:20:00

09:22:00

09:24:00

09:26:00



09:18:00

09:20:00

09:22:00

09:24:00

09:26:00

09:26:00



09:28:00



09:30:00



09:32:00



09:34:00



09:26:00

09:28:00

09:30:00

09:32:00

09:34:00

09:34:00

09:36:00

09:38:00

09:40:00

09:41:57



0.66 μ m (#3)



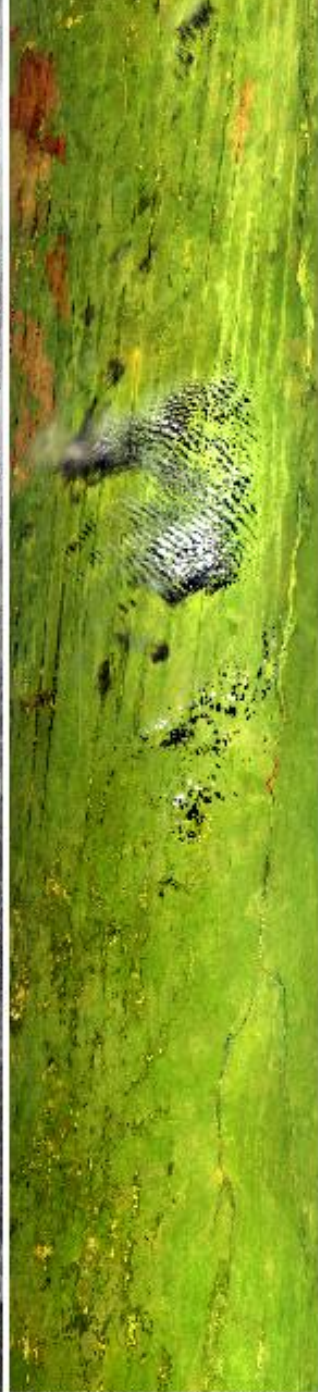
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

09:34:00

09:36:00

09:38:00

09:40:00

09:41:57

Aircraft Heading = 274.5°
 Solar Zenith = 45.4°
 GPS Altitude = 20140. m (MSL)

09:41:57



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (<#20,#10,#2)

09:41:57

Aircraft Heading = 274.5°

Solar Zenith = 45.4°

GPS Altitude = 20140. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 17 Sep 2000

Namibia

Flight #00-177 Track #10

09:41:57

0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (<#20,#10,#2)



09:41:57

09:42:00

09:42:00

09:44:00

09:44:00

09:46:00

09:46:00

09:48:00

09:48:00

09:48:00



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

09:48:00

09:50:00



09:50:00

09:52:14



09:52:14

Aircraft Heading = 270.0°

Solar Zenith = 39.5°

GPS Altitude = 20186. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 17 Sep 2000

Namibia/Botswana

Flight #00-177 Track #11

09:58:02

0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (#20,#10,#2)



09:58:02

09:57:00



09:57:00

09:57:00



09:58:00



10:01:00



10:03:00



10:05:00



09:57:00

09:58:00

10:01:00

10:03:00

10:05:00

10:05:00

10:05:00

10:07:00

10:07:00

10:08:00

10:08:00

10:11:00

10:11:00

10:11:52

10:11:52



0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)

RGB (#20,#10,#2)

reverse scale

Aircraft Heading = 92.2°

Solar Zenith = 36.9°

GPS Altitude = 20291. m (MSL)

MODIS Airborne Simulator Browse Imagery

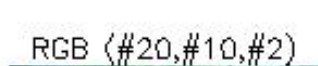
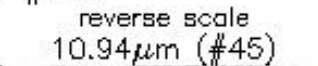
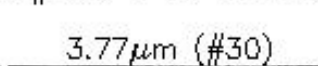
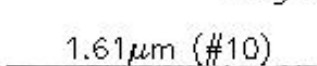
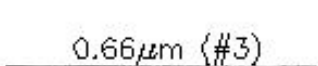
SAFARI 2000 Campaign – 17 Sep 2000

Namibia

Flight #00-177 Track #12

10:15:35

10:15:35



0.66µm (#3)

1.61µm (#10)

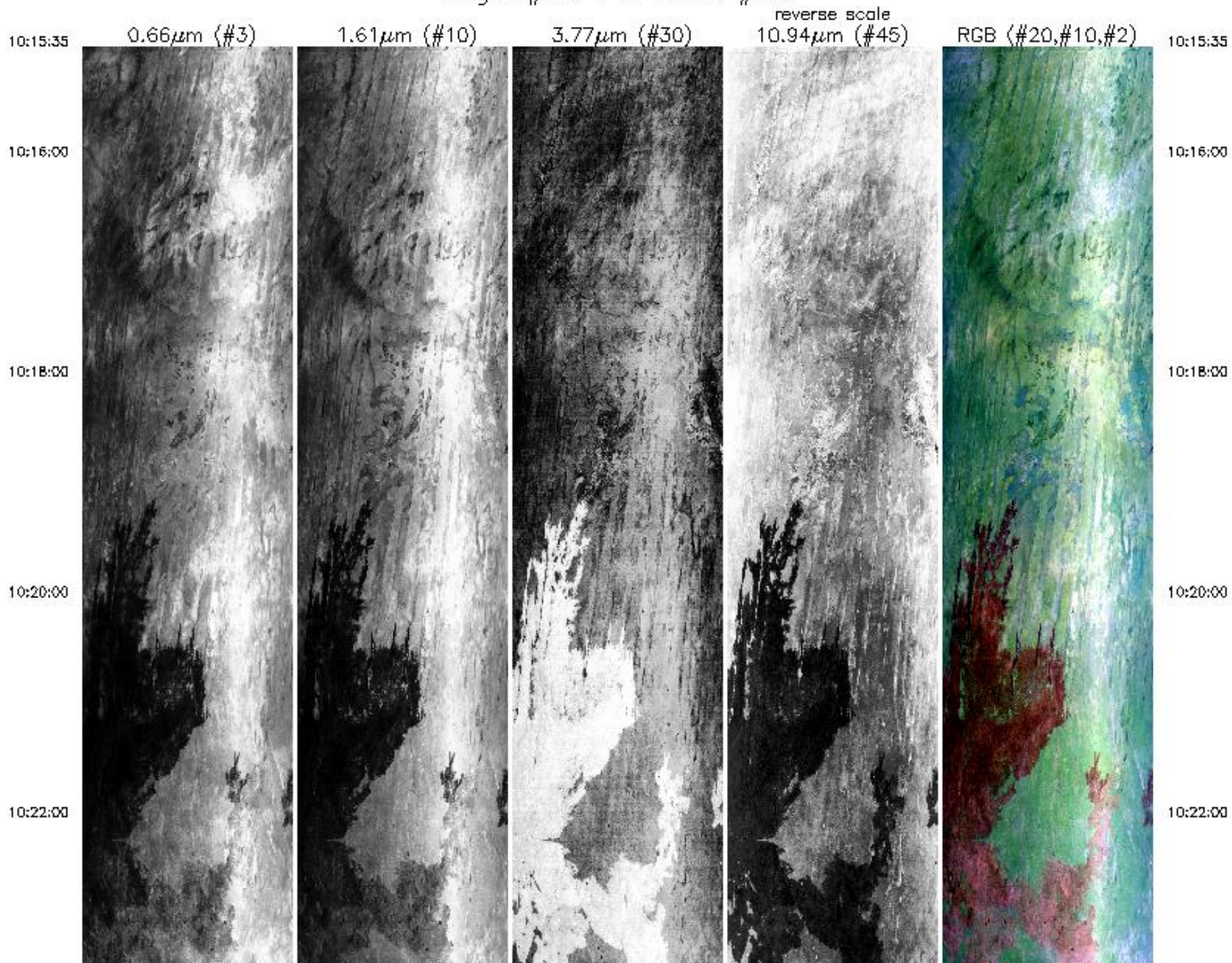
3.77µm (#30)

10.94µm (#45)

RGB (#20,#10,#2)

reverse scale

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Namibia
Flight #00-177 Track #12



10:22:00

10:24:00

10:26:00

10:28:00

10:28:27



10:22:00

10:24:00

10:26:00

10:28:00

10:28:27

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Aircraft Heading = 269.4°

Solar Zenith = 33.1°

GPS Altitude = 20271. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 17 Sep 2000
Namibia/Botswana
Flight #00-177 Track #13

10:33:07

0.66µm (#3)

1.61µm (#10)

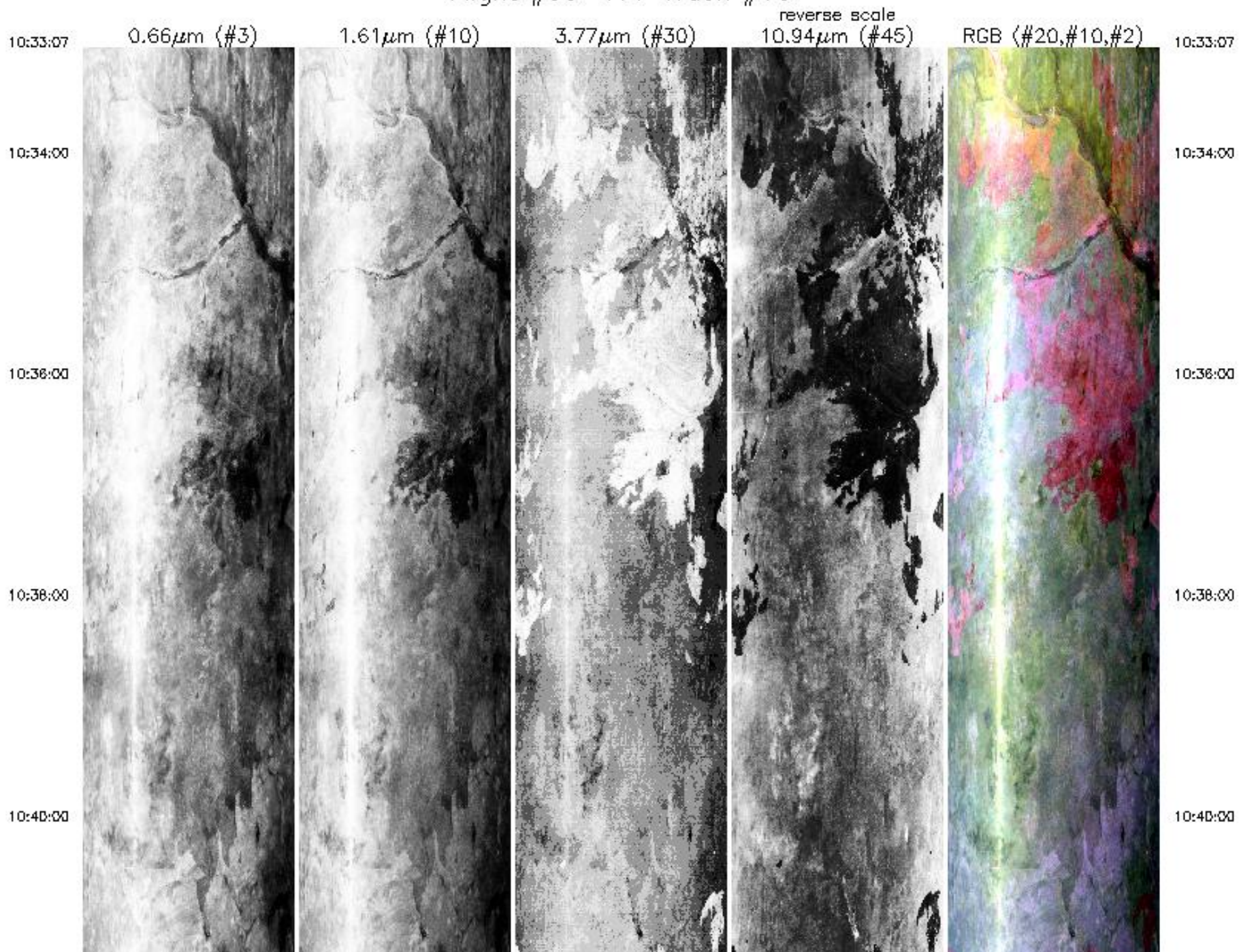
3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

10:33:07

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Namibia/Botswana
Flight #00-177 Track #13



10:40:00



10:42:00



10:44:00



10:46:00



10:48:00



10:40:00

10:42:00

10:44:00

10:46:00

10:48:00

10:48:00



10:48:00

10:48:37

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (<#20,#10,#2)

10:48:37

Aircraft Heading = 90.7°

Solar Zenith = 30.3°

GPS Altitude = 20402. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 17 Sep 2000

Botswana

Flight #00-177 Track #14

10:48:55

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

reverse scale
10.94µm (#45)

RGB (<#20,#10,#2)

10:48:55



10:50:00

10:50:00

10:52:00

10:52:00

10:54:00

10:54:00

10:54:00



10:56:00



10:58:00



11:00:00



11:02:00



10:54:00

10:56:00

10:58:00

11:00:00

11:02:00

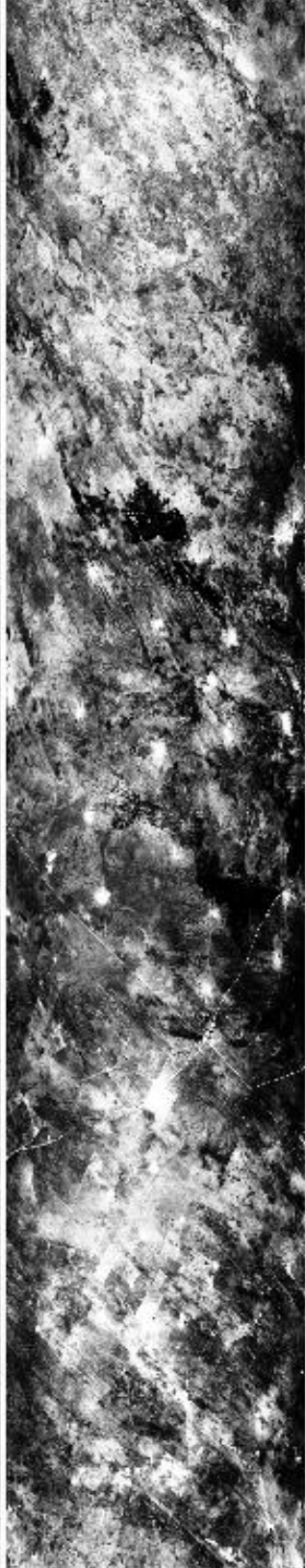
11:02:00

11:04:00

11:06:00

11:08:00

11:10:00



11:02:00

11:04:00

11:06:00

11:08:00

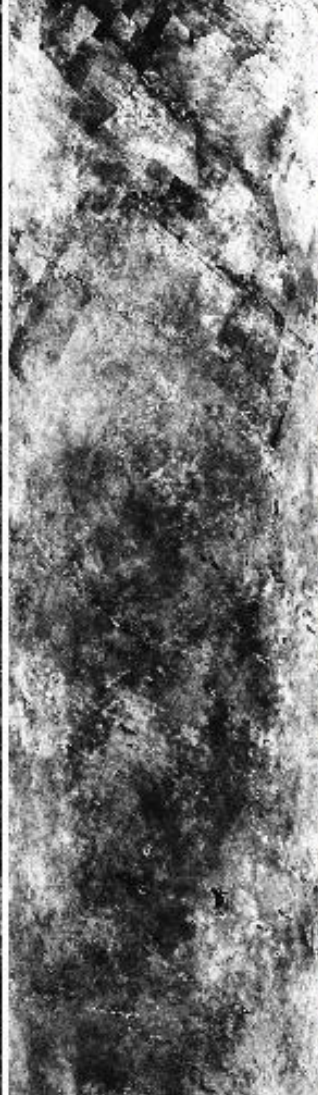
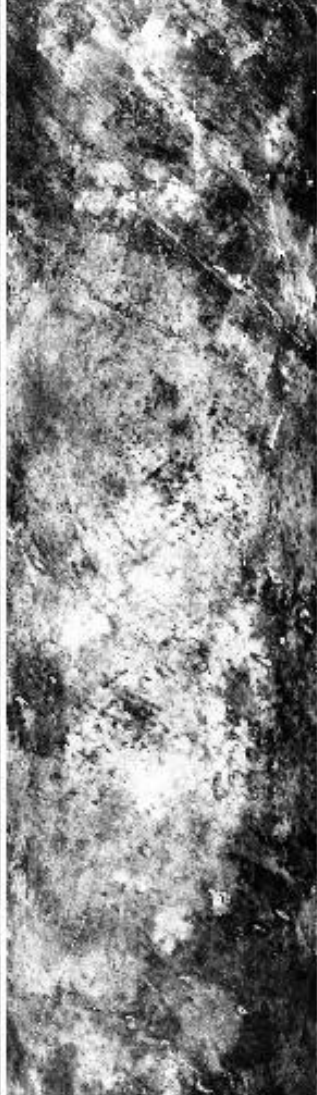
11:10:00

11:10:00

11:12:00

11:14:00

11:16:42



11:10:00

11:12:00

11:14:00

11:16:42

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Aircraft Heading = 143.8°

Solar Zenith = 27.5°

GPS Altitude = 20658. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign - 17 Sep 2000

Botswana

Flight #00-177 Track #15

11:16:42

0.66µm (#3)

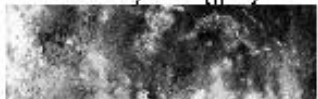
1.61µm (#10)

3.77µm (#30)

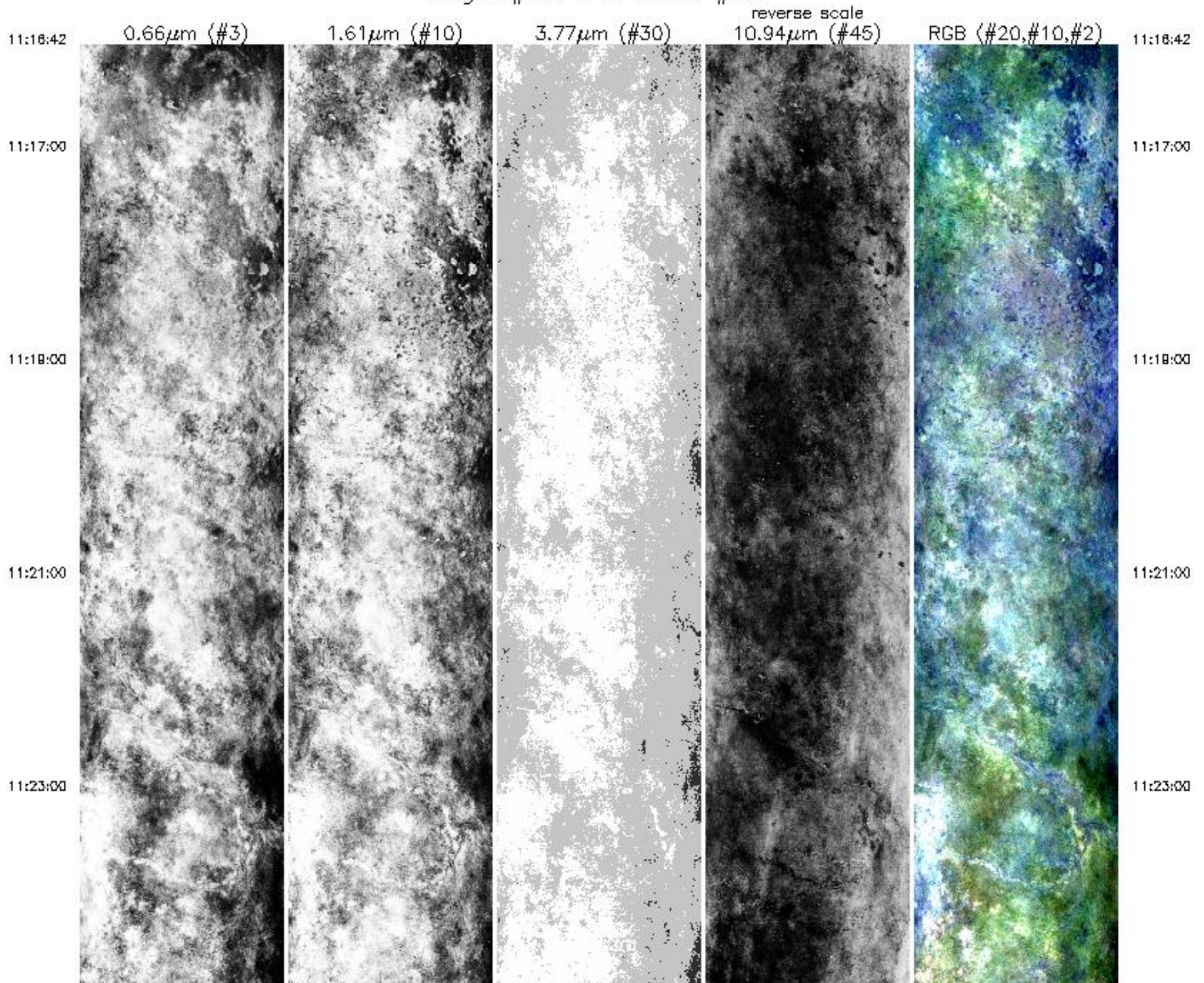
10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

11:16:42



MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #15



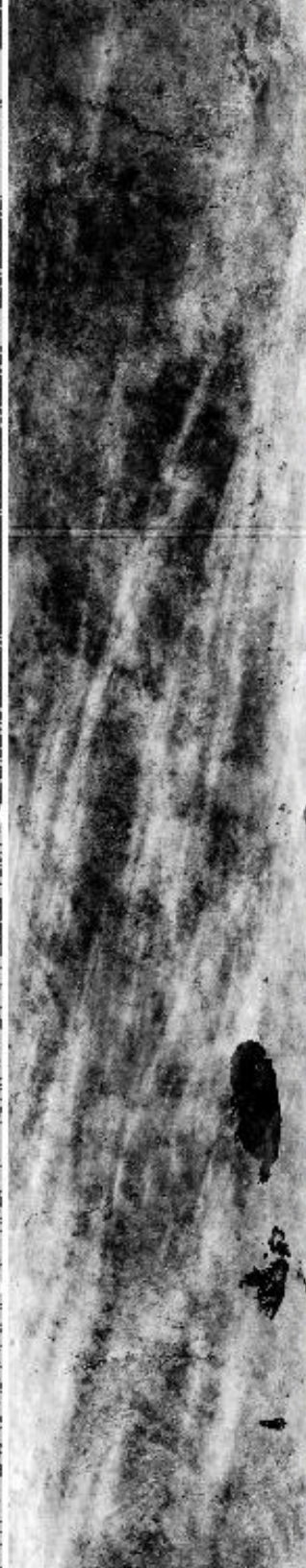
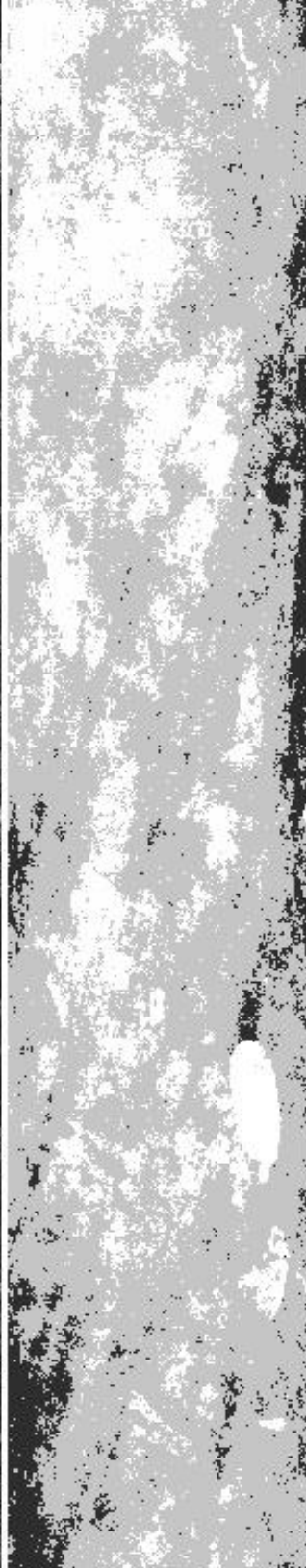
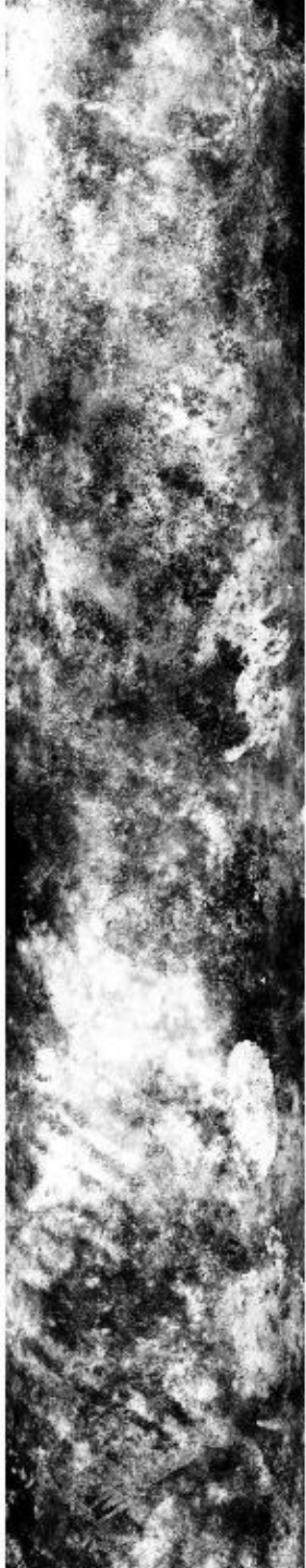
11:25:00

11:27:00

11:28:00

11:31:00

11:33:00



11:25:00

11:27:00

11:28:00

11:31:00

11:33:00

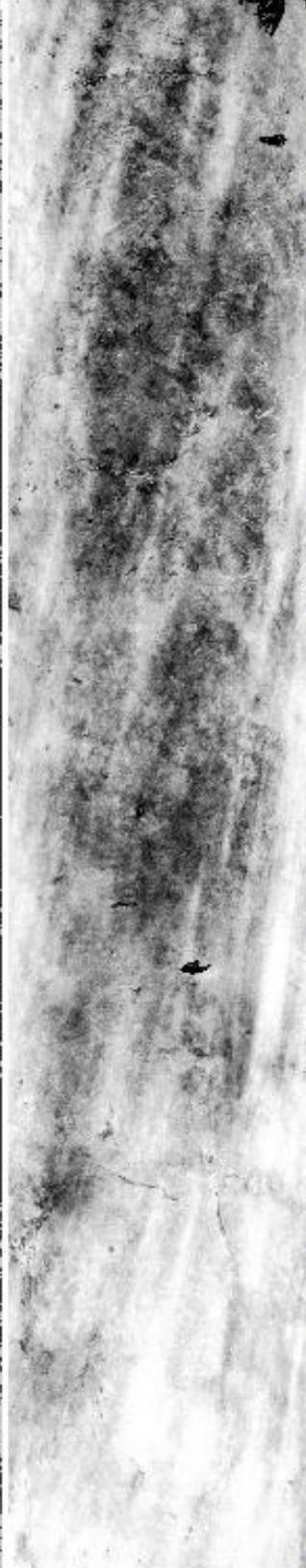
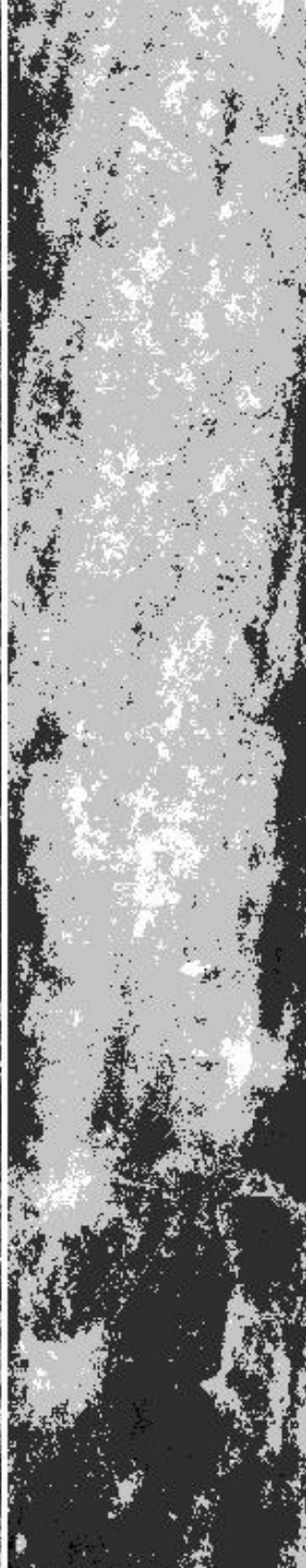
11:33:00

11:35:00

11:37:00

11:39:00

11:41:00



11:33:00

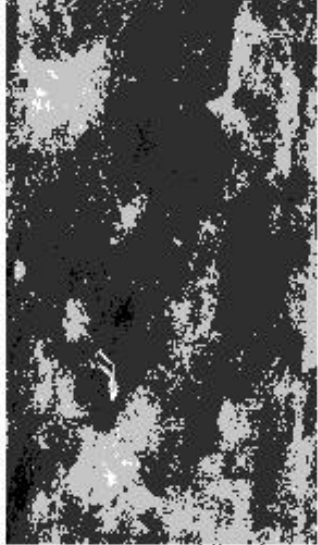
11:35:00

11:37:00

11:39:00

11:41:00

11:41:00



11:41:00

11:43:28

0.66 μm (#3)

1.61 μm (#10)

3.77 μm (#30)

10.94 μm (#45)
reverse scale

RGB (#20,#10,#2)

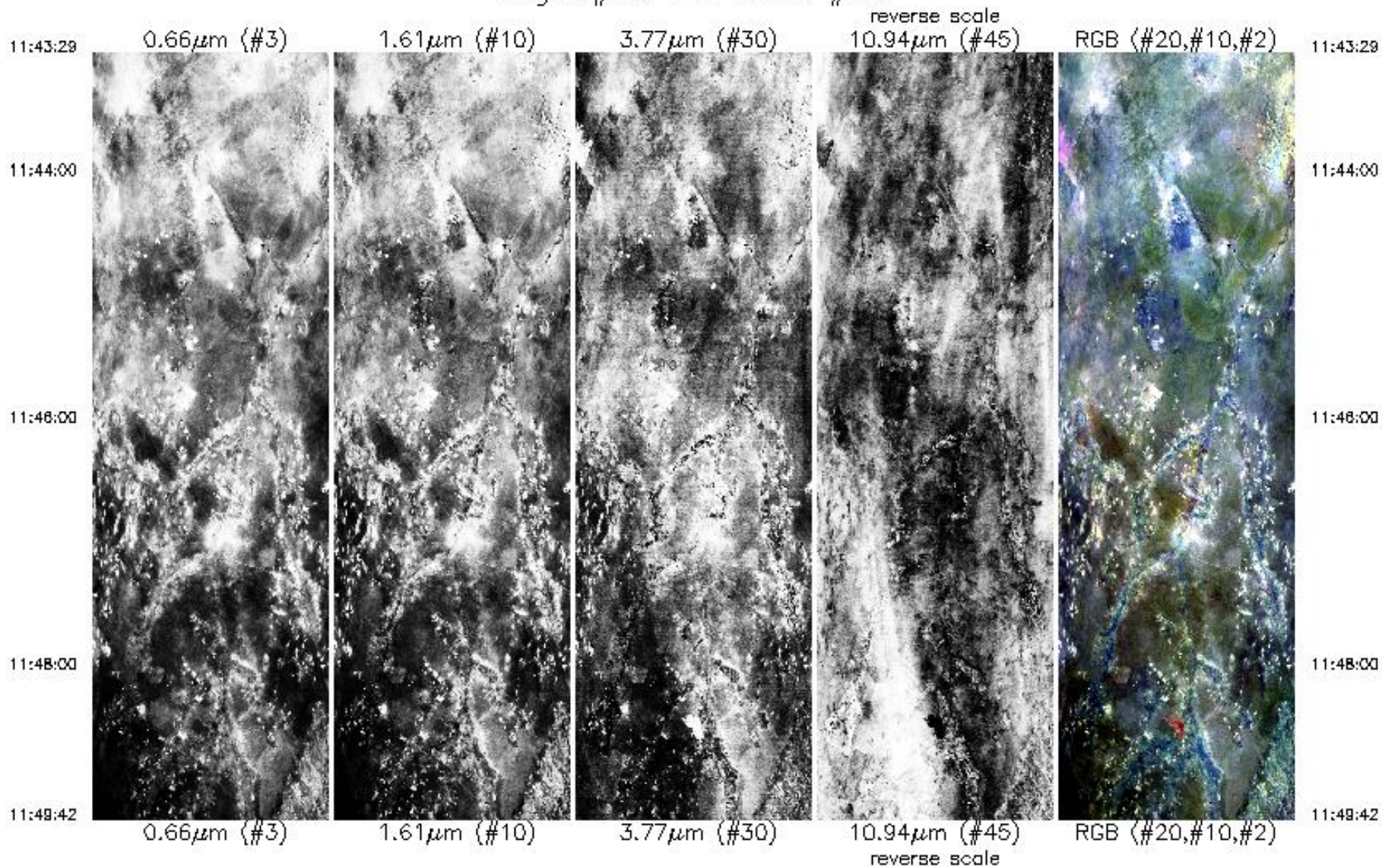
11:43:28

Aircraft Heading = 145.5°

Solar Zenith = 26.1°

GPS Altitude = 20368. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #16



Aircraft Heading = 144.7°
Solar Zenith = 26.6°
GPS Altitude = 20311. m (MSL)

11:49:42

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

RGB (#20,#10,#2)

11:49:42

Aircraft Heading = 144.7°

Solar Zenith = 26.6°

GPS Altitude = 20311. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
Botswana
Flight #00-177 Track #17

11:49:48

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

RGB (#20,#10,#2)

11:49:48



11:52:04

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

RGB (#20,#10,#2)

11:52:04

Aircraft Heading = 151.5°

Solar Zenith = 26.9°

GPS Altitude = 20343. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 17 Sep 2000
South Africa
Flight #00-177 Track #18

11:52:57

0.66 μ m (#3)

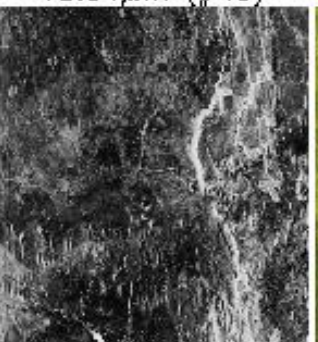
1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

RGB (#20,#10,#2)

11:52:57



11:53:00

11:53:00

11:53:00



11:55:00



11:57:00



11:59:00



12:01:00



11:53:00

11:55:00

11:57:00

11:59:00

12:01:00

12:01:00



12:03:00



12:05:00



12:07:00



12:09:00



12:01:00



12:03:00



12:05:00



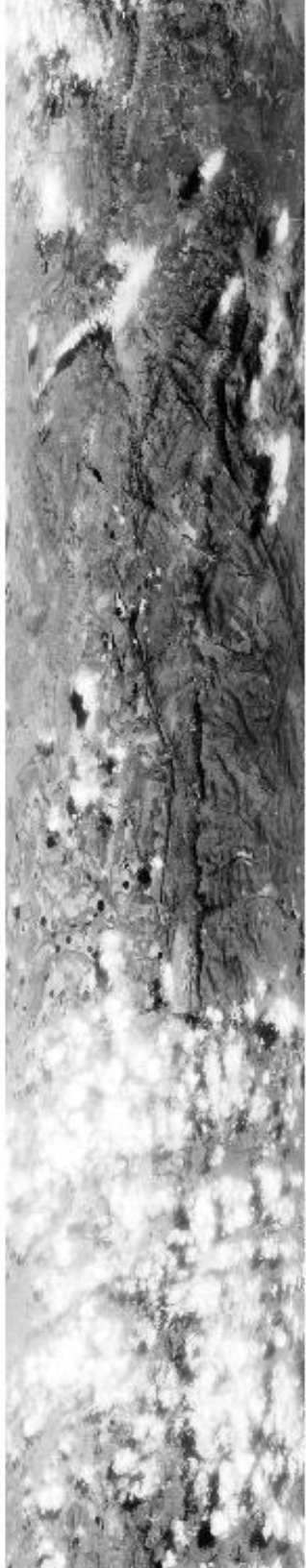
12:07:00



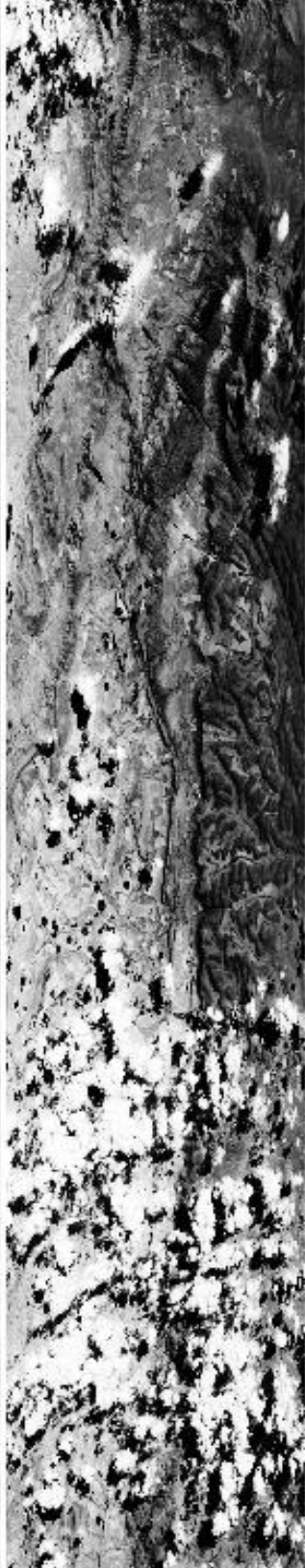
12:09:00



12:09:00



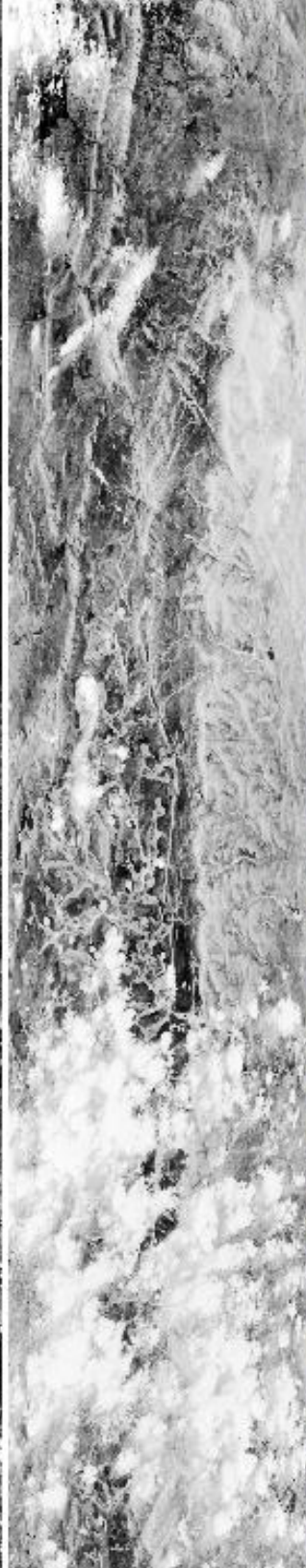
12:11:00



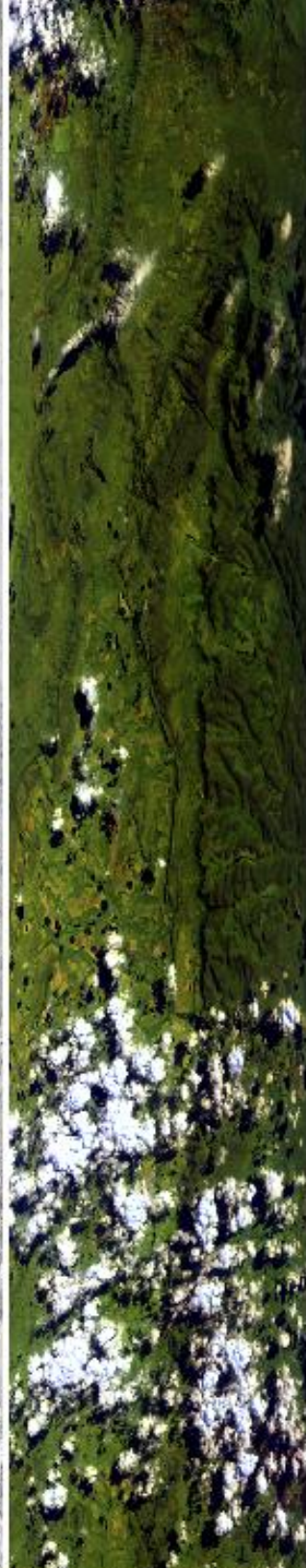
12:13:00



12:15:00



12:17:00



12:18:44

12:09:00

12:11:00

12:13:00

12:15:00

12:17:00

12:18:44

12:17:00



12:17:00

12:18:44

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (<#20,#10,#2)

12:18:44

Aircraft Heading = 82.7°

Solar Zenith = 27.2°

GPS Altitude = 20194. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 17 Sep 2000

South Africa

Flight #00-177 Track #19

12:18:44

0.66µm (#3)

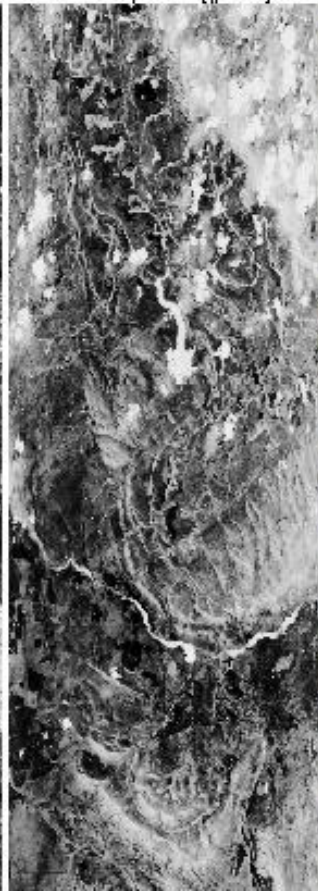
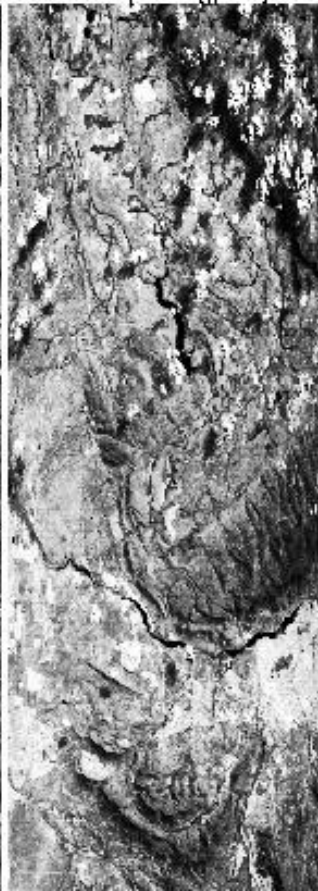
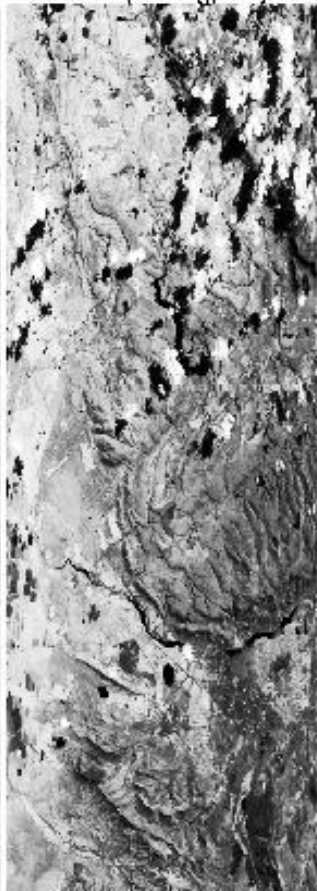
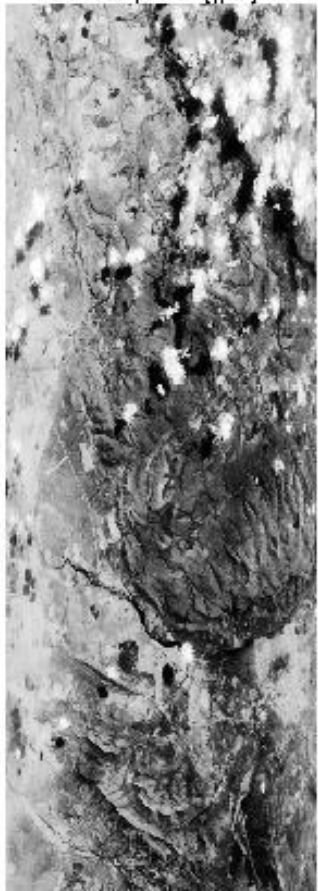
1.61µm (#10)

3.77µm (#30)

reverse scale
10.94µm (#45)

RGB (<#20,#10,#2)

12:18:44



12:20:00

12:20:00

12:22:00

12:22:00

12:24:00

12:24:00

12:24:00



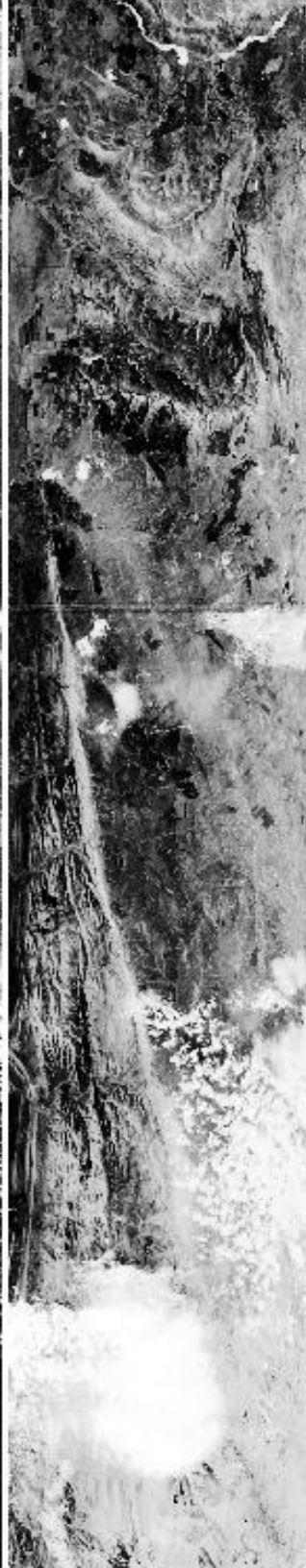
12:26:00



12:28:00



12:30:00



12:32:00



12:24:00

12:26:00

12:28:00

12:30:00

12:32:00

12:32:00



12:34:00



12:36:00



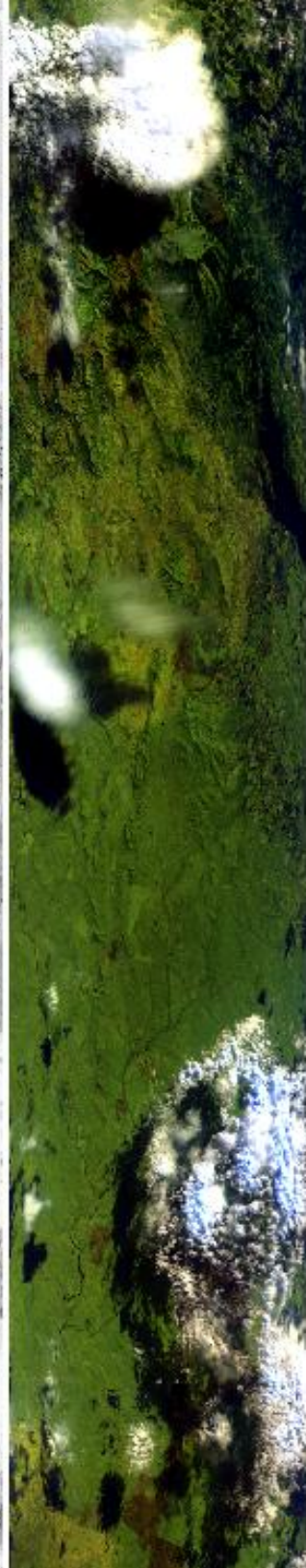
12:38:00



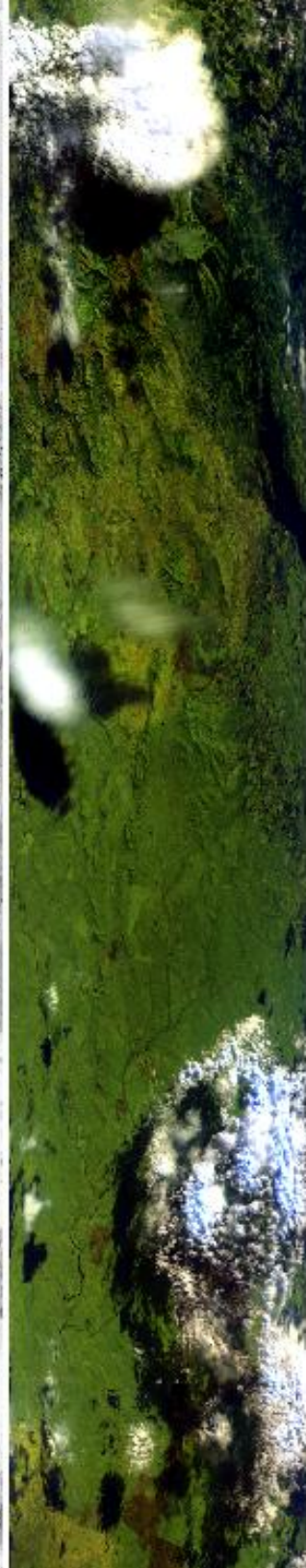
12:40:00



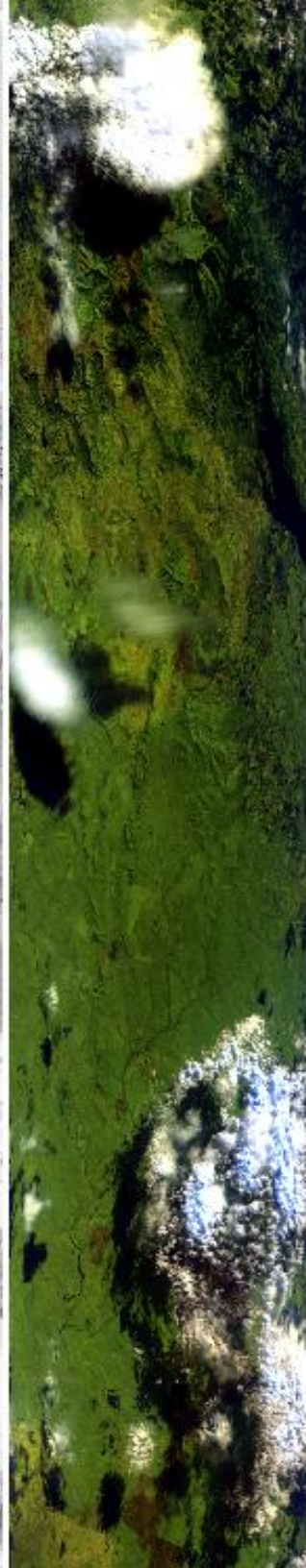
12:32:00



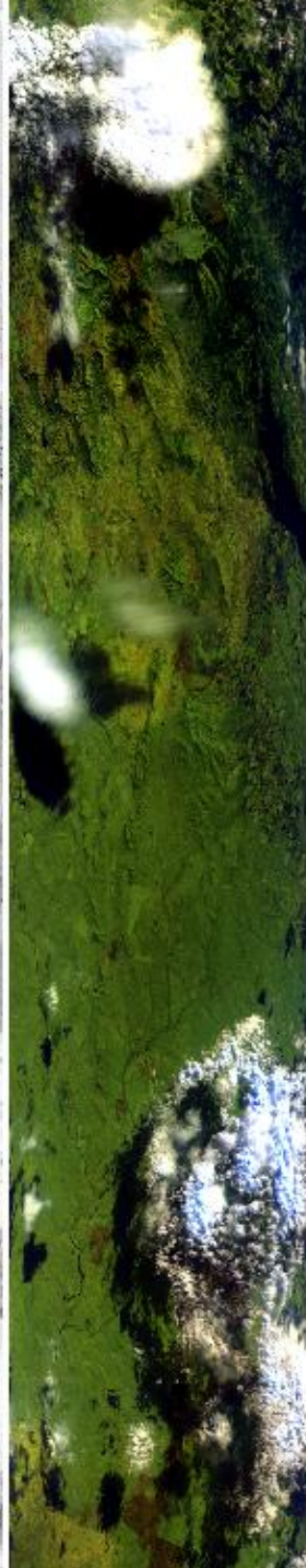
12:34:00



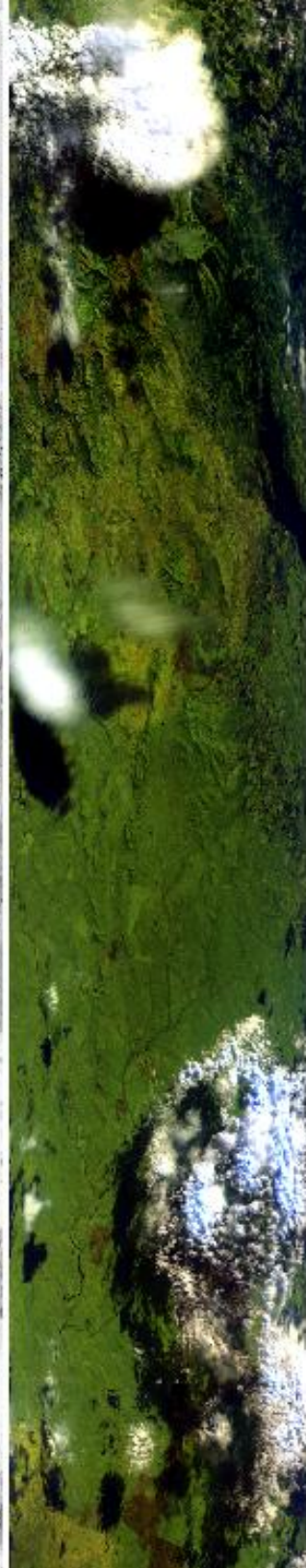
12:36:00



12:38:00



12:40:00



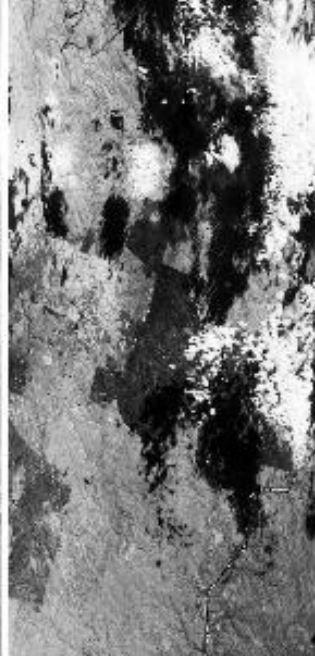
12:40:00

12:42:00

12:43:52



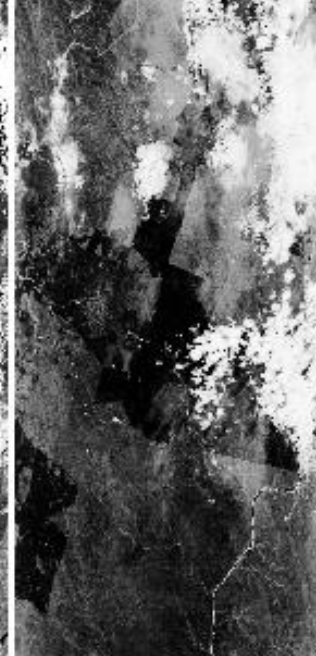
0.66 μm (#3)



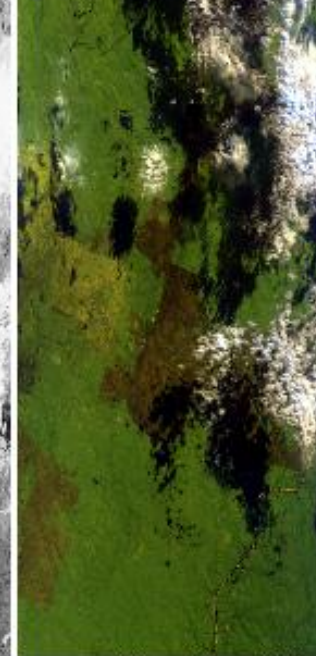
1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20, #10, #2)

12:40:00

12:42:00

12:43:52

Aircraft Heading = 77.9°
Solar Zenith = 26.9°
GPS Altitude = 19756. m (MSL)