

SAFARI 2000 MAS Flight 00175

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 #00-175

RBG Images

[Click Image](#)

Track #13



Summary Information

Date: **September 13, 2000**

ER-2 Flight Number: **00-175**

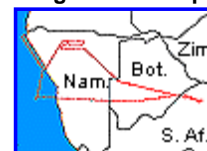
Location: **South Africa, Botswana and Namibia**

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)

Flight Track Map



[Click to enlarge](#)

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: **19 processed**

Scanlines Processed: **136089**

[Solar Azimuth and Zenith Angles](#)

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 (msl)
	01	07:12-07:16	262	23.41-23.47	27.00-26.62	1249	18713
	02	07:25-07:48	264	23.64-24.06	25.57-22.80	8498	19389
	03	07:48-08:14	271	24.07-24.04	22.78-19.58	9999	19636
	04	08:16-08:43	274	24.04-23.83	19.40-16.19	9999	19750
	05	08:43-09:09	275	23.83-23.57	16.19-12.99	9999	19704
	06	09:09-09:15	275	23.57-23.50	12.99-12.34	2055	19653
	07	09:20-09:47	12	23.67-20.69	12.30-13.12	9999	19645
	08	09:50-10:17	331	20.39-17.81	13.15-11.56	9999	19847
	09	10:17-10:19	333	17.81-17.61	11.56-11.44	767	19868
	10	10:32-10:56	151	18.73-20.94	11.71-13.08	8666	19928
	11	10:58-11:22	33	20.93-18.57	13.29-14.94	9186	20082
	12	11:25-11:43	87	18.32-18.32	15.13-17.20	6663	20202
	13	11:47-12:05	270	18.65-18.65	17.23-15.11	6642	19908
	14	12:09-12:27	90	19.00-19.00	15.10-17.20	6701	19949
	15	12:28-12:55	136	19.03-21.10	17.30-19.59	9999	20054



R:2.15 microns
G:1.64 microns
B:0.55 microns

16	12:55-13:07	136	21.10-22.03	19.59-20.66	4590	20142
17	13:09-13:36	108	22.22-22.89	20.86-24.01	9999	20165
18	13:36-14:03	103	22.89-23.51	24.01-27.22	9999	20122
19	14:03-14:06	102	23.51-23.56	27.22-27.56	1080	19106
All images in sequence						

ER-2 Flight Log

Author: [Steve Platnick](#)
Mission Scientist: [Dr. Michael King](#)
ER-2 Pilot: [Dave Wright](#)
Takeoff: [13Sep2000 0000 UTC](#)
Landing: [13Sep2000 0000 UTC](#)
Duration: [08:00:00](#)

Objective:

(1) Fly off the Namibian coast during a Terra overpass of Etosha National Park (ENP), Namibia, for clear sky and cloud validation, (2) Image ENP and a burn scar to the north-north-west, (3) Overfly the Okwa River and Tshaney SAVE sites in Botswana.

The University of Washington CV-580 (based in Walvis Bay, Namibia) sampled Northern Namibia coastal stratus during the Terra/ER-2 overflights. The UK C130 (based in Windhoek, Namibia) did clear sky work in the vicinity of ENP.

The ER-2 track parallel to Terra, occurring at the same time as the overpass but approximately 250 km west of the satellite ground track, included broken low and midlevel clouds to the south and marine stratocumulus to the north.

Key Flight Legs:

No comments (See flight objectives)

Highlights: Coastal stratus along northern Namibian coast with UW CV-580 in situ cloud sampling; the Okwa River and Tshaney SAVE sites in Botswana.

AERONET sites were overflown during this mission:

- Etosha Pan and National Park, Namibia, AERONET sun photometer (vicinity of 18°45'S, 16°30'E).

Pilot Report:

N/A

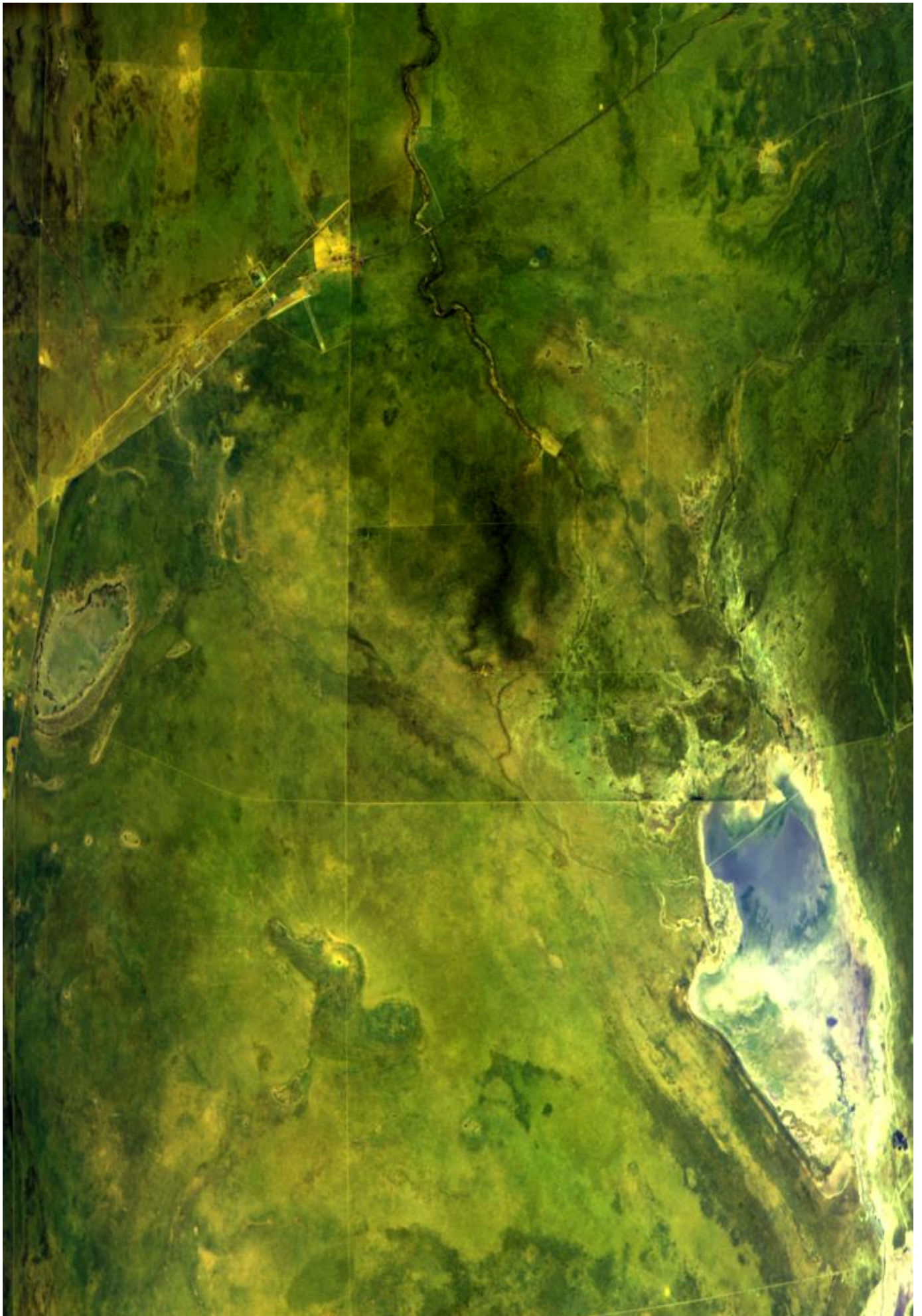
Meteorology:

Wednesday's forecast (Steve Medcalf, SAWB): A cold front is pushing through the Cape with a coastal low on the southeast coast. The ridge from the Indian ocean high has weakened with moist influx confined to the Zambezi valley. A coastal low has developed along the Namibian coast. Aloft, a well-marked trough is developing to the west. Showers are expected along the southwestern and southern coastal regions with snow on the mountain ranges of the southwestern and southern Cape. A band of middle level moisture has spread into the southern and central parts of Namibia and central Botswana. Subsidence ahead of the approaching trough is causing fine weather over northern Namibia. Isolated thundershowers are possible over the central interior of South Africa.

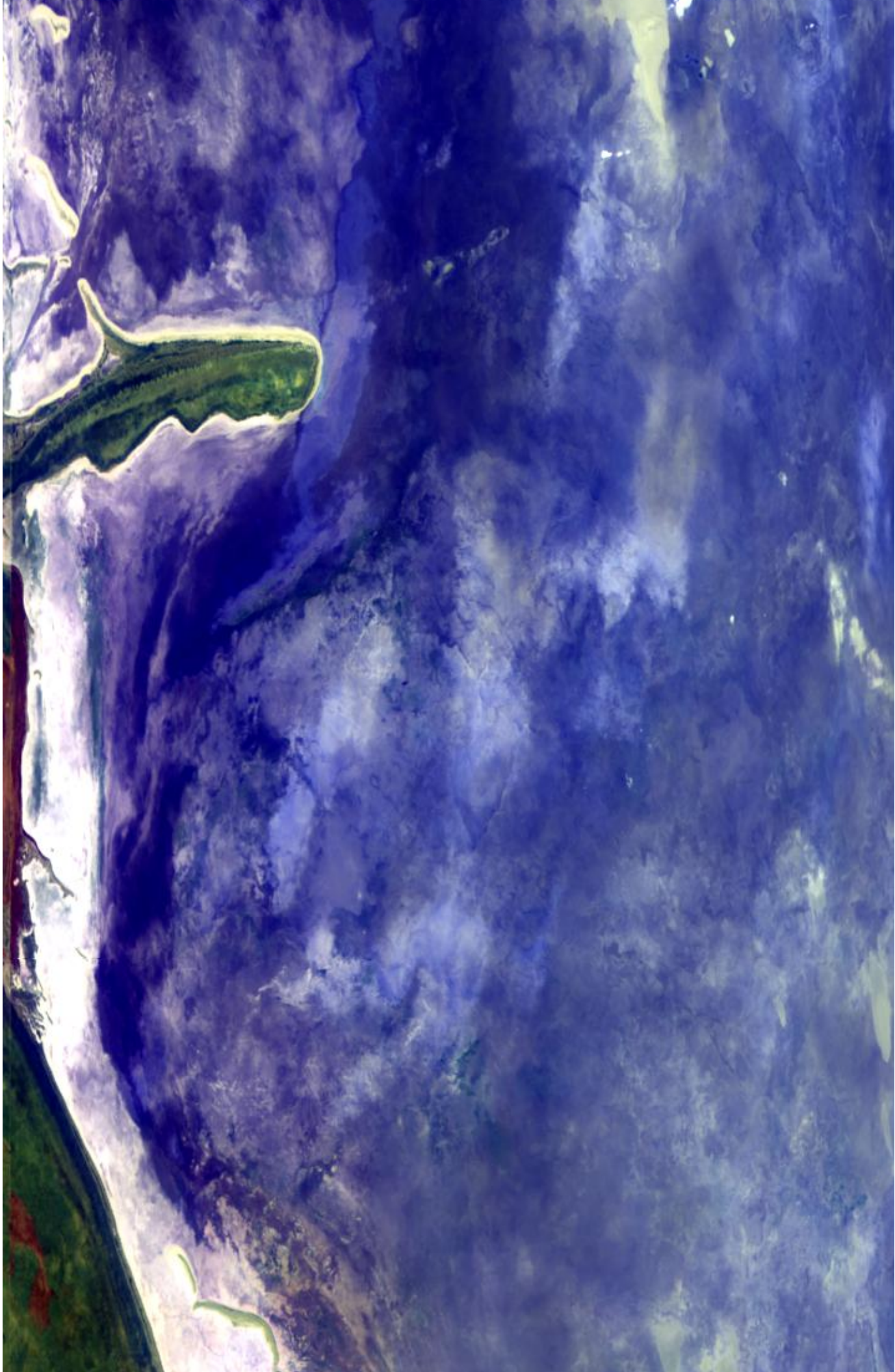
Instrument Status:

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



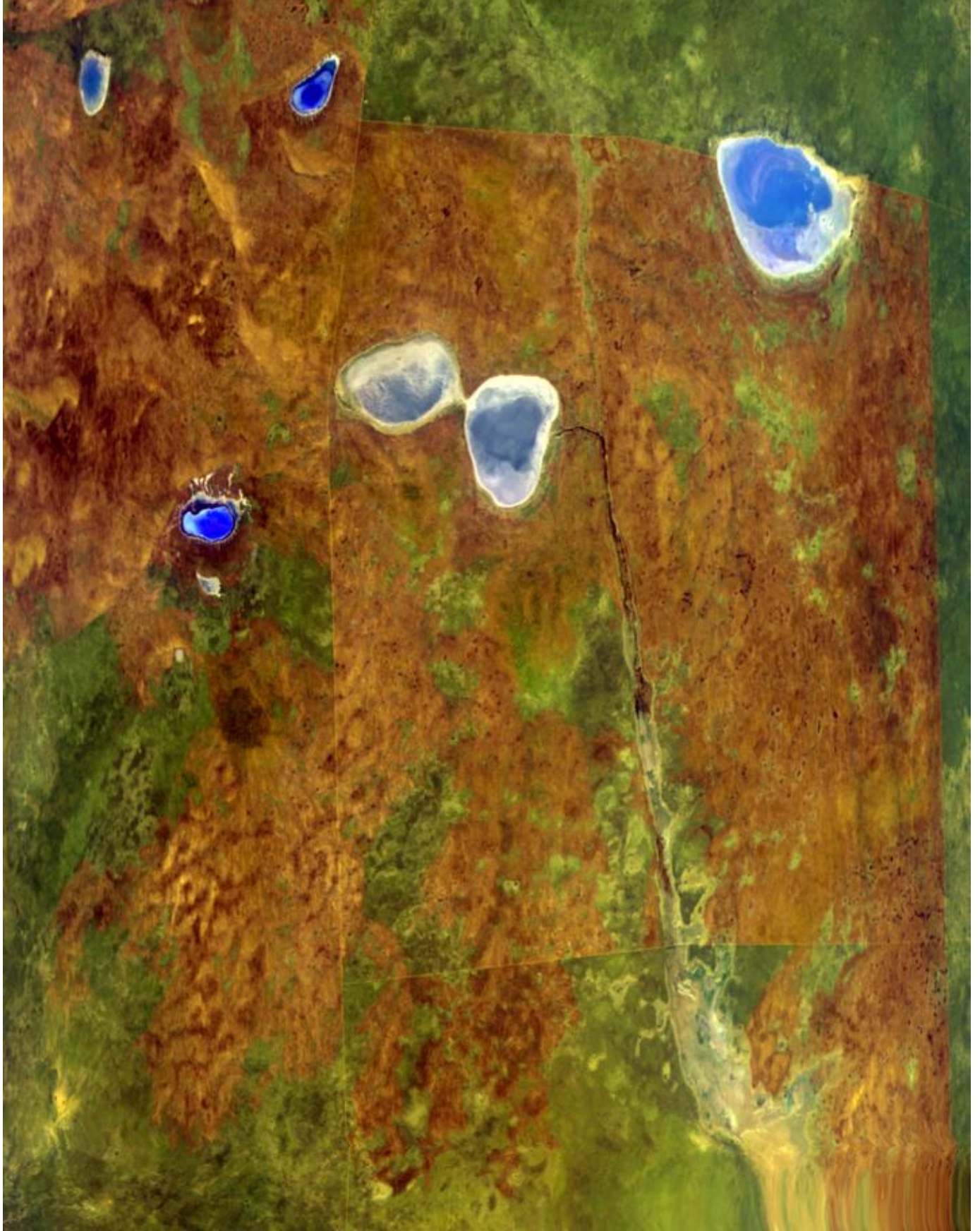


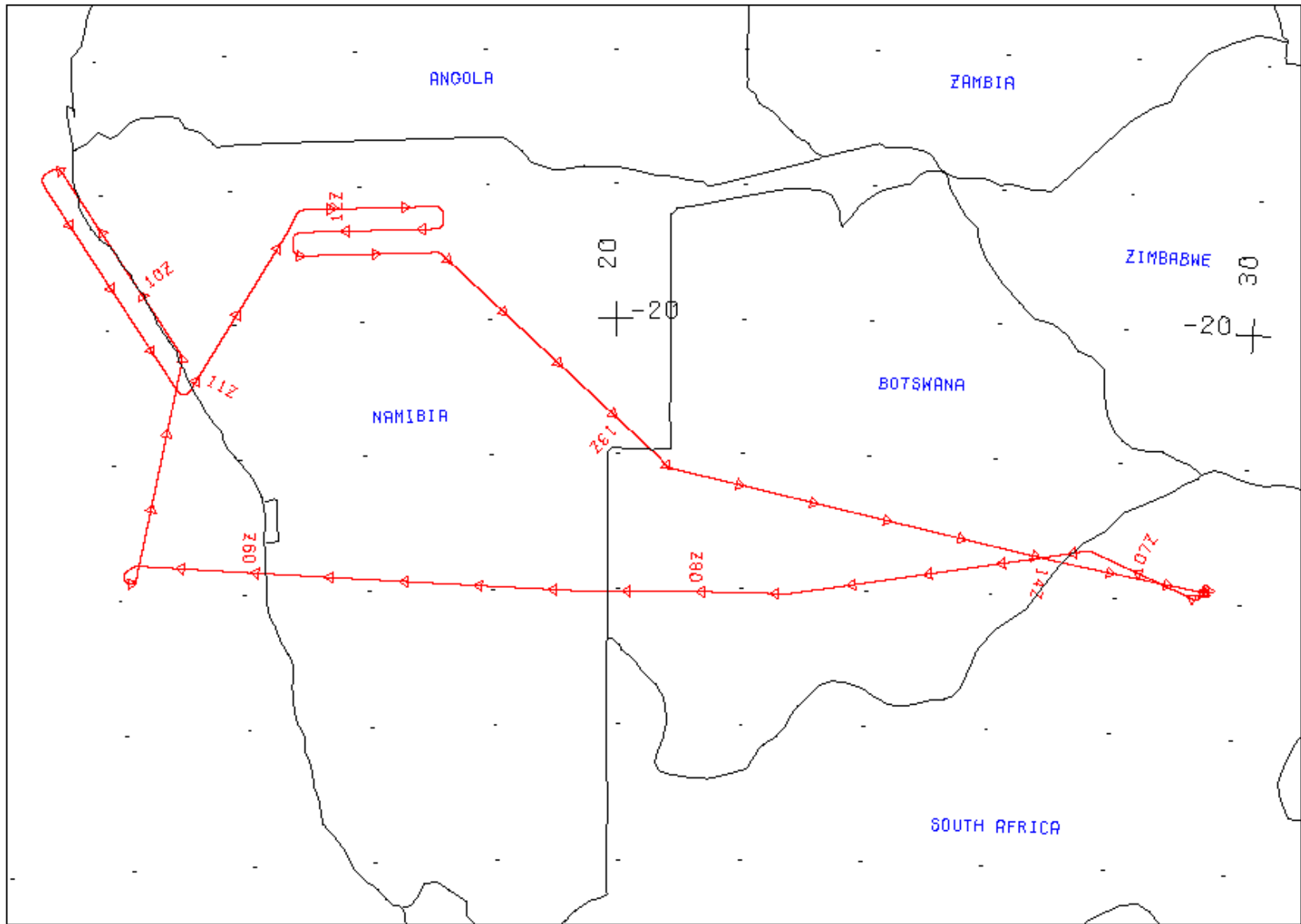












FLIGHT 00-175

13 SEPTEMBER 2000

A/C 809

SAFARI

FLIGHT 00-175

13 SPETEMBER 2000

A/C 809

SAFARI

50 MAS Configuration for 00-175 13 Sep 2000 Namibia and Botswana

01	01	16	0	0.039663	0.0000	0.452	0.472	0.493	0.100	1981.92
02	02	16	0	0.042330	0.0000	0.534	0.554	0.577	0.100	1857.88
03	03	16	0	0.028492	0.0000	0.635	0.658	0.689	0.100	1549.55
04	04	16	0	0.033276	0.0000	0.687	0.708	0.731	0.100	1386.41
05	05	16	0	0.025286	0.0000	0.729	0.750	0.773	0.100	1260.07
06	06	16	0	0.025992	0.0000	0.810	0.830	0.855	0.100	1053.65
07	07	16	0	0.025873	0.0000	0.853	0.874	0.895	0.100	962.82
08	08	16	0	0.020807	0.0000	0.893	0.912	0.934	0.100	869.28
09	09	16	0	0.022533	0.0000	0.933	0.954	0.974	0.100	784.92
10	10	16	0	0.003572	0.0000	1.586	1.612	1.640	0.100	244.16
11	11	16	0	0.006641	0.0000	1.642	1.668	1.695	0.010	227.32
12	12	16	0	0.003129	0.0000	1.698	1.722	1.749	0.010	201.29
13	13	16	0	0.003095	0.0000	1.751	1.776	1.801	0.010	176.56
14	14	16	0	0.003182	0.0000	1.805	1.830	1.855	0.010	156.28
15	15	16	0	0.003040	0.0000	1.855	1.880	1.906	0.010	139.66
16	16	16	0	0.002884	0.0000	1.906	1.932	1.956	0.100	131.21
17	17	16	0	0.002615	0.0000	1.956	1.982	2.006	0.010	122.76
18	18	16	0	0.002553	0.0000	2.006	2.032	2.057	0.010	109.78
19	19	16	0	0.002463	0.0000	2.058	2.082	2.107	0.010	98.67
20	20	16	0	0.002500	0.0000	2.107	2.132	2.157	0.010	86.28
21	21	16	0	0.005252	0.0000	2.156	2.180	2.205	0.010	76.85
22	22	16	0	0.002850	0.0000	2.205	2.230	2.255	0.010	73.57
23	23	16	0	0.002919	0.0000	2.255	2.280	2.305	0.010	68.38
24	24	16	0	0.002728	0.0000	2.306	2.330	2.354	0.010	58.53
25	25	16	0	0.002658	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/er2/00-175
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 13 Sep 2000
 NASA FLIGHT NUMBER 00-175

LINE	START OF FLIGHT LINE FLIGHT DATA					END OF FLIGHT			
	TIME	LAT	LON	SOLAR	ALT	TIME	LAT	LON	SOLAR
	HH:MM:SS	DEG	DEG	ZEN	AZIM	HH:MM:SS	DEG	DEG	ZEN
	SCAN	HEAD	ALT	ZEN	AZIM	SCAN	HEAD	ALT	ZEN
	LINES	DEG	M (GPS)	ZEN	AZIM	LINES	DEG	M (GPS)	ZEN
1	07:12:46	-23.405	27.003	50.4	63.5	07:16:07	-23.470	26.620	50.1
	63.1	1249	262.1	18713					
2	07:25:16	-23.643	25.570	48.9	62.4	07:48:01	-24.063	22.795	46.7
	59.7	8498	263.5	19389					
3	07:48:08	-24.065	22.778	46.7	59.7	08:14:54	-24.038	19.578	44.0
	56.6	9999	270.9	19636					
4	08:16:24	-24.037	19.399	43.8	56.4	08:43:11	-23.835	16.194	41.1
	53.2	9999	273.7	19750					
5	08:43:11	-23.835	16.194	41.1	53.2	09:09:57	-23.567	12.993	38.4
	49.6	9999	274.6	19704					
6	09:09:57	-23.567	12.993	38.4	49.6	09:15:28	-23.505	12.340	37.9
	48.9	2055	274.5	19653					
7	09:20:53	-23.668	12.297	37.1	47.1	09:47:39	-20.695	13.119	30.1
	39.8	9999	11.7	19645					
8	09:50:29	-20.385	13.148	29.8	38.6	10:17:16	-17.811	11.558	24.9
	32.2	9999	331.0	19847					
9	10:17:16	-17.811	11.557	24.9	32.2	10:19:19	-17.614	11.438	24.6
	31.6	767	332.6	19868					
10	10:32:56	-18.725	11.708	24.0	22.5	10:56:08	-20.937	13.080	24.6
	4.3	8666	151.2	19928					
11	10:58:13	-20.933	13.286	24.5	2.5	11:22:49	-18.574	14.939	23.1
	342.6	9186	33.1	20082					
12	11:25:46	-18.321	15.134	23.1	340.1	11:43:36	-18.316	17.203	26.0

325.9	6663	86.9	20202						
13	11:47:32	-18.647	17.226	26.8	324.4	12:05:19	-18.649	15.112	28.1
320.3	6642	270.3	19908						
14	12:09:40	-18.999	15.097	29.0	318.9	12:27:37	-18.997	17.205	33.5
309.6	6701	89.9	19949						
15	12:28:27	-19.029	17.295	33.8	309.3	12:55:14	-21.103	19.592	41.8
302.0	9999	135.6	20054						
16	12:55:14	-21.103	19.592	41.8	302.0	13:07:31	-22.035	20.658	45.6
299.3	4590	135.8	20142						
17	13:09:53	-22.216	20.856	46.3	298.8	13:36:40	-22.892	24.010	54.8
292.3	9999	108.1	20165						
18	13:36:40	-22.892	24.010	54.8	292.3	14:03:27	-23.510	27.218	63.6
286.9	9999	103.4	20122						
19	14:03:27	-23.510	27.219	63.6	286.9	14:06:20	-23.563	27.562	64.6
286.3	1080	101.9	19106						

NUMBER OF FILES FOR THIS FLIGHT = 19
 TOTAL NUMBER OF SCAN LINES = 136089
 DATE THESE FILES WERE PROCESSED = 18-May-2002
 DATE THIS LIST WAS CREATED = Mon May 20

11:33:45 PDT 2002

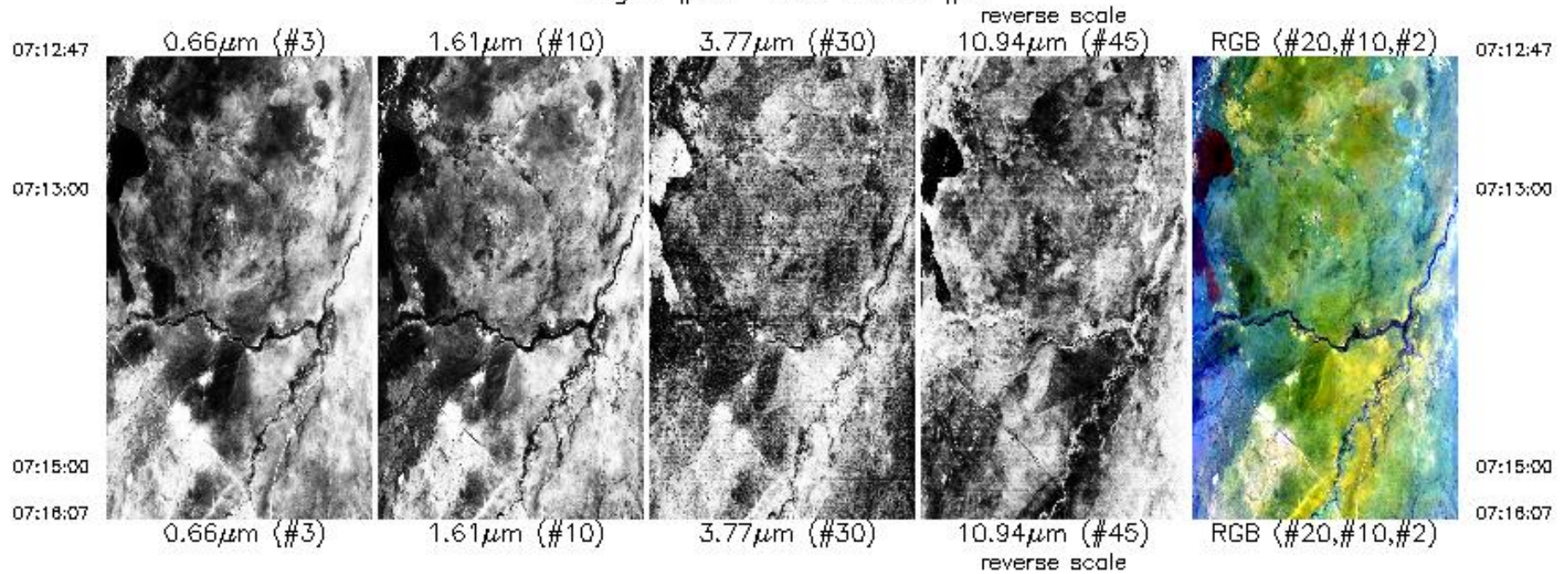
GRANULE VERSION = 2

GLOBAL ATTRIBUTES

Attribute Name	Description
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CreationDate	18-May-2002 13:46:45
AircraftPlatform	NASA ER-2 (809)
NavFormatCode	Format (A-1)
LocationCode	Inertial (INU)
AltitudeCode	Inertial (INU)
NavDataSource	ER2 navigation recorder
NavDataPath	/nav/2000/er2/00-175

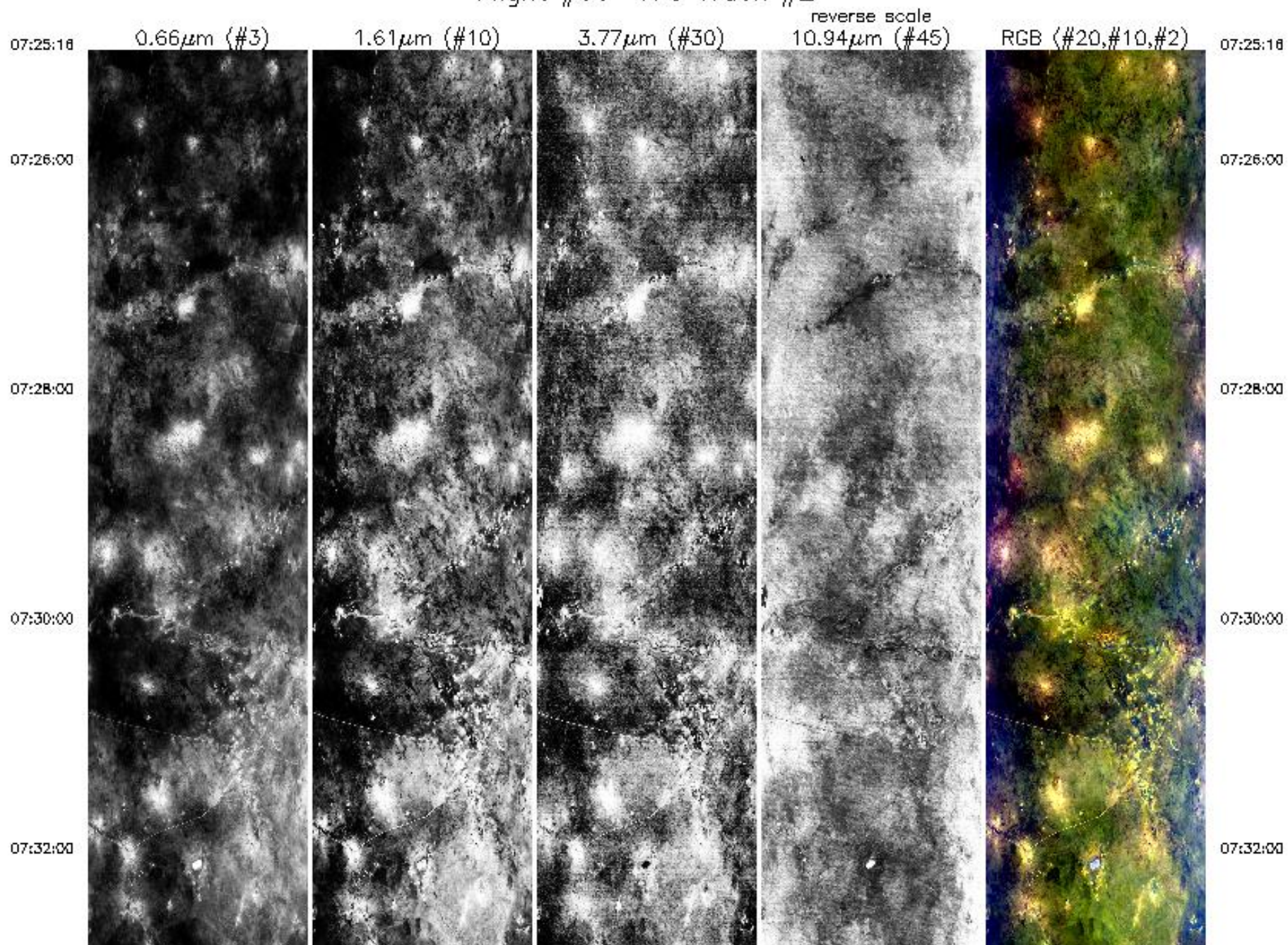
CalibrationName	SAFARI_Jul19-Oct19
Reference	NCSA HDF Reference Manual, Version 4.1r4, 2000
title	MODIS Airborne Simulator (MAS) Level-1B Data
ExperimentName	SAFARI 2000
FlightNumber	00-175
FlightDate	13 Sep 2000
SiteLineRun	void
GeographicArea	Botswana
SRF_FTP	ftp://asapdata/mas/srf/Oct_00/
SRF_dataset	/rarray/calibrat/mas/srf/Oct_00/
FlightLineNumber	1
TotalFlightLines	19
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	2
metadata_version	2.0.0
data_quality	Good
Other_Aircraft_Sensors	AirMISR, CLS, MOPPIT-A, Leonardo
Principal_Investigator	King
lat_UL	-23.25391
lon_UL	26.98049
lat_UR	-23.55557
lon_UR	27.02294
lat_LL	-23.31577
lon_LL	26.59162
lat_LR	-23.62419
lon_LR	26.64195
begin_date	20000912 071247
end_date	20000912 071607
RunTime	122,300 ms, or 97 ms/scanline
CompletionDate	18-May-2002 13:50:50
producer_granule_id	
MASL1B_00175_01_20000912_0712_0716_V02.hdf	

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Botswana
 Flight #00–175 Track #1

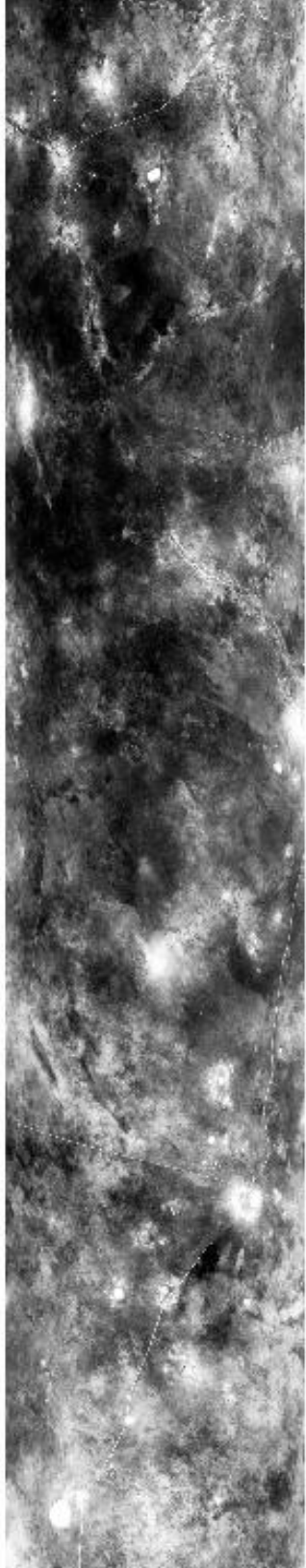


Aircraft Heading = 262.6°
 Solar Zenith = 74.8°
 GPS Altitude = 18733. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #2



07:32:00



07:34:00



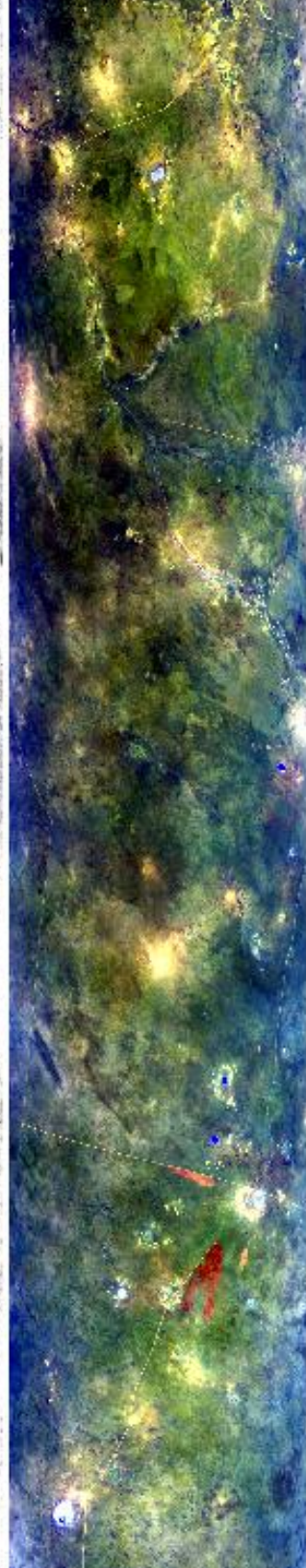
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07:38:00



07:40:00



07:32:00

07:34:00

07:36:00

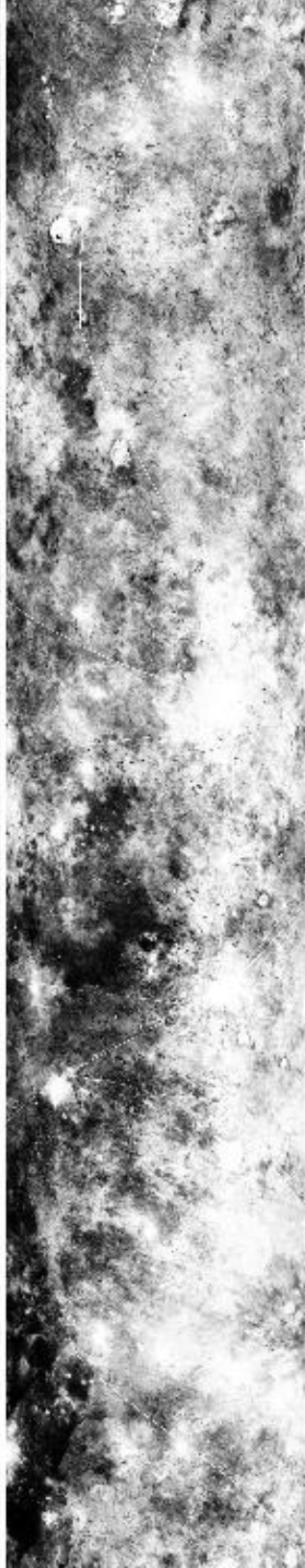
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07:44:00



07:46:00



07:48:00



07:40:00

07:42:00

07:44:00

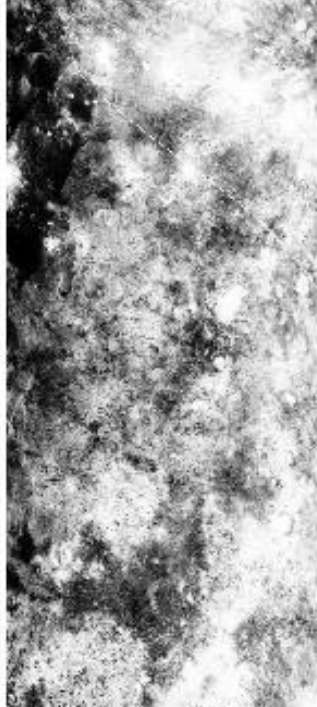
07:46:00

07:48:00

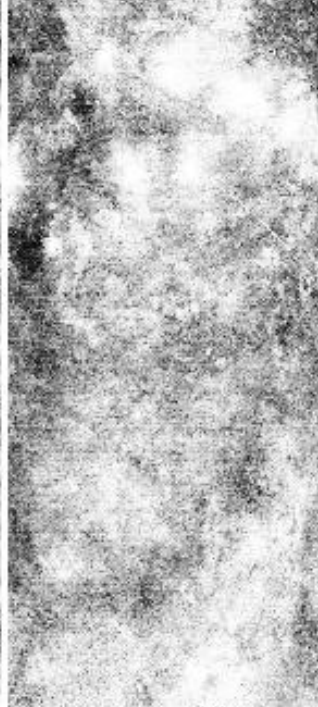
07:48:00



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)

07:50:00

07:52:02

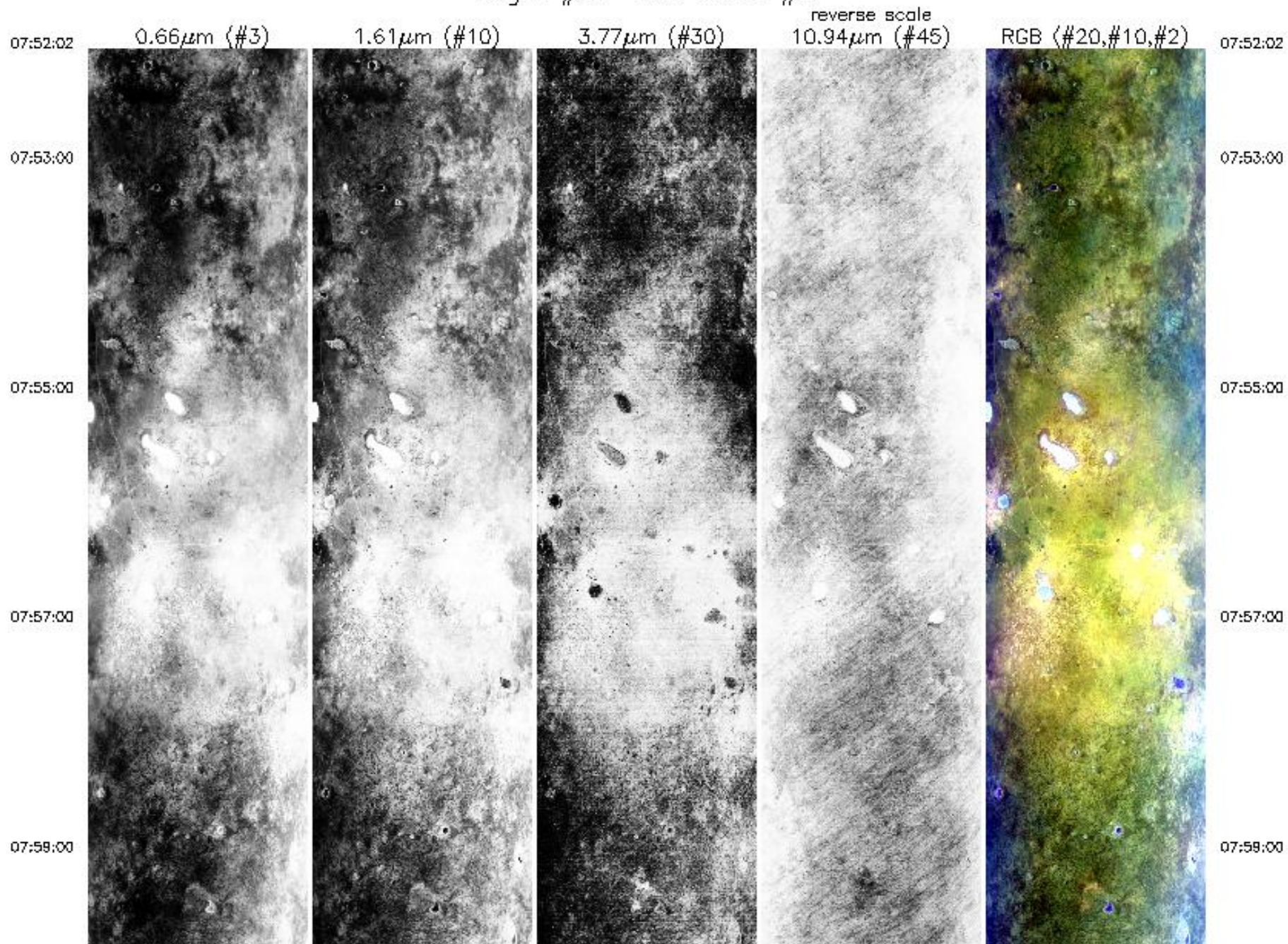
07:48:00

07:50:00

07:52:02

Aircraft Heading = 261.7°
Solar Zenith = 72.1°
GPS Altitude = 19450. m (MSL)

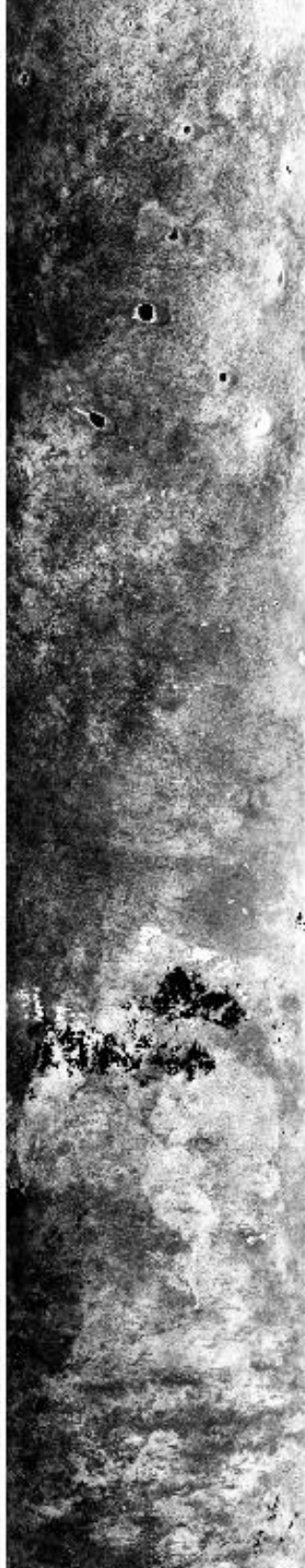
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #3



07:59:00



08:01:00



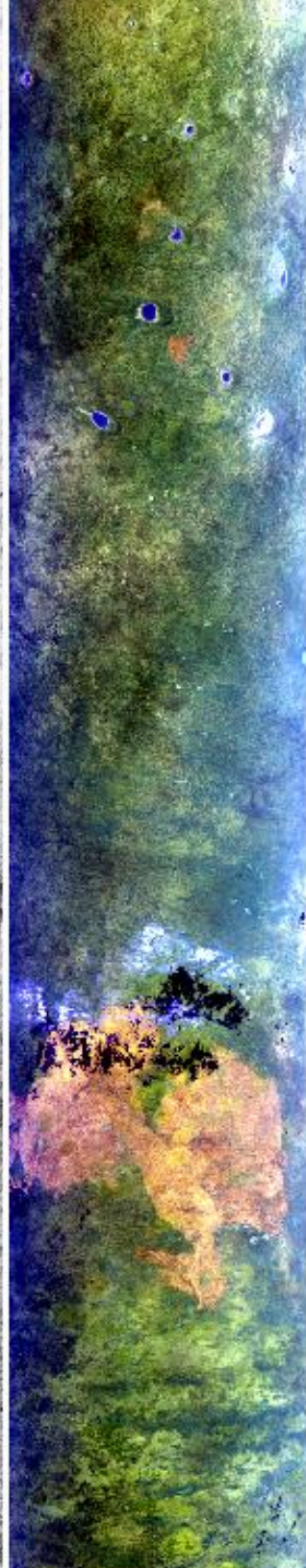
08:03:00



08:05:00



08:07:00



07:59:00

08:01:00

08:03:00

08:05:00

08:07:00

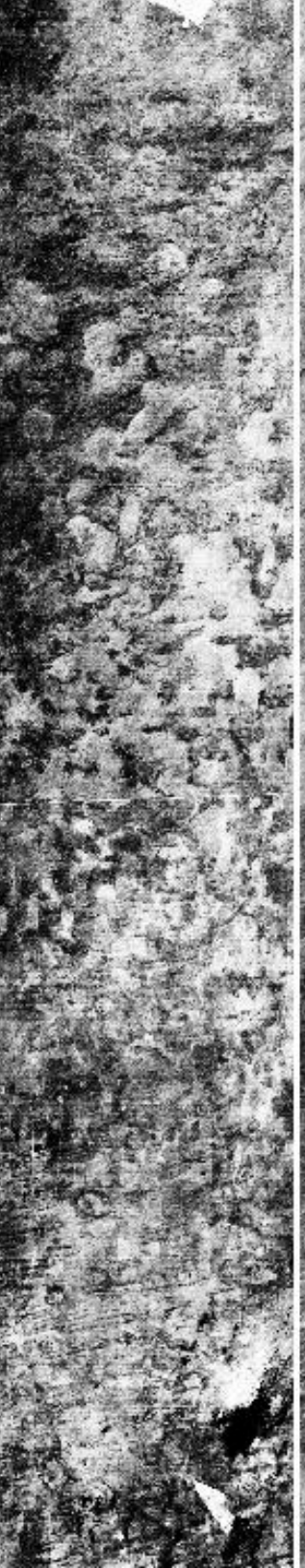
08:07:00



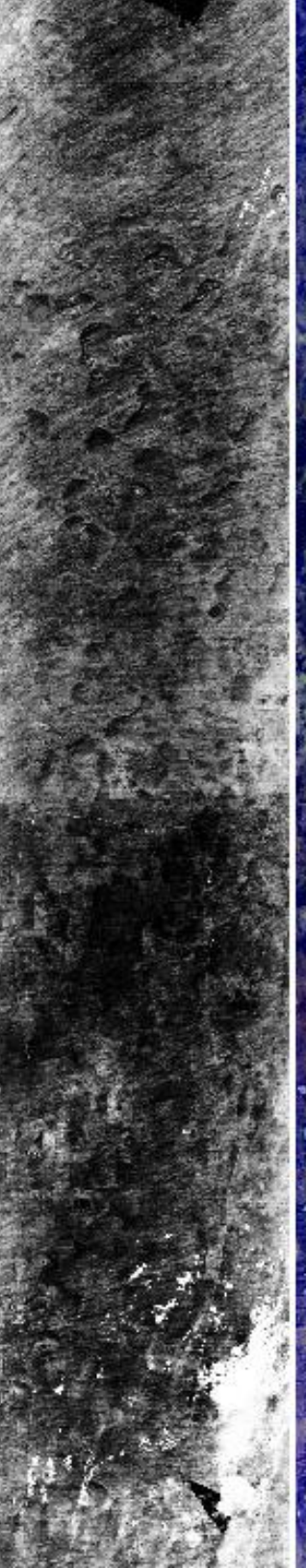
08:09:00



08:11:00



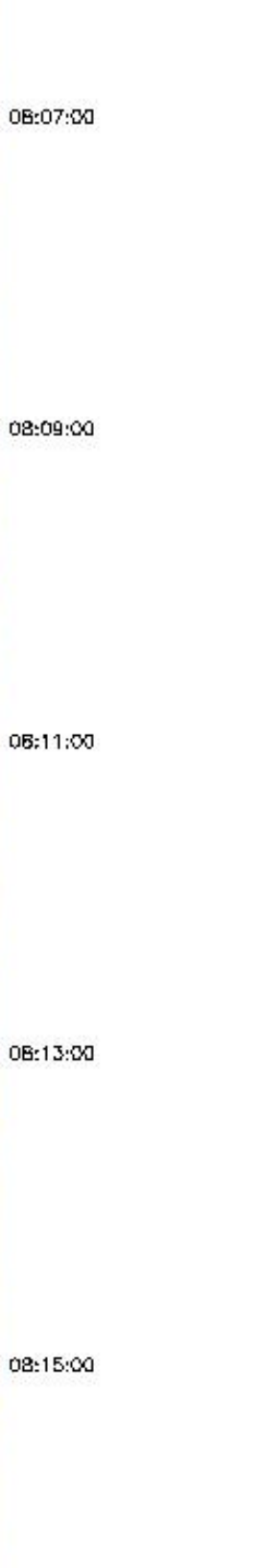
08:13:00



08:15:00



08:07:00



08:09:00

08:11:00

08:13:00

08:15:00

08:15:00

08:17:00

08:18:48



0.66 μ m (#3)



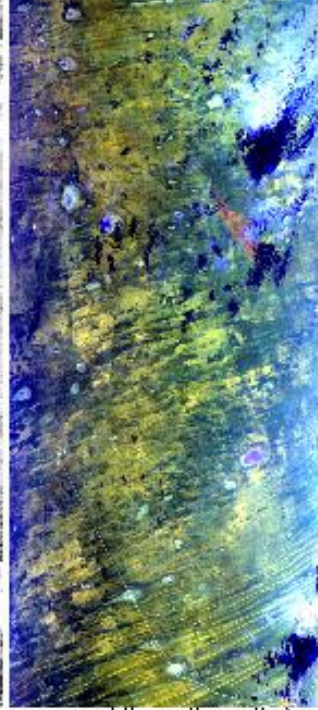
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

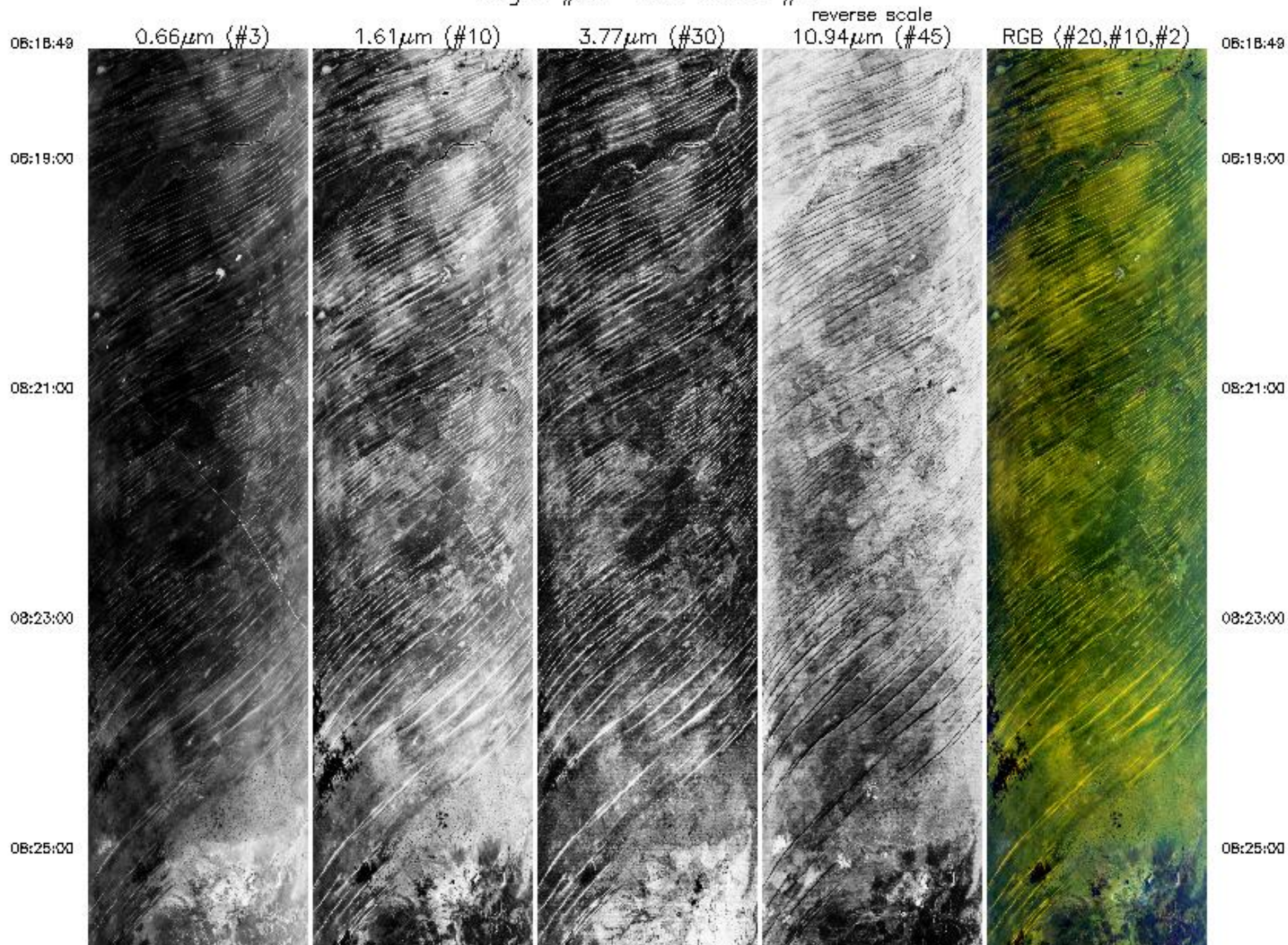
08:15:00

08:17:00

08:18:48

Aircraft Heading = 273.8°
 Solar Zenith = 66.2°
 GPS Altitude = 19720. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #4



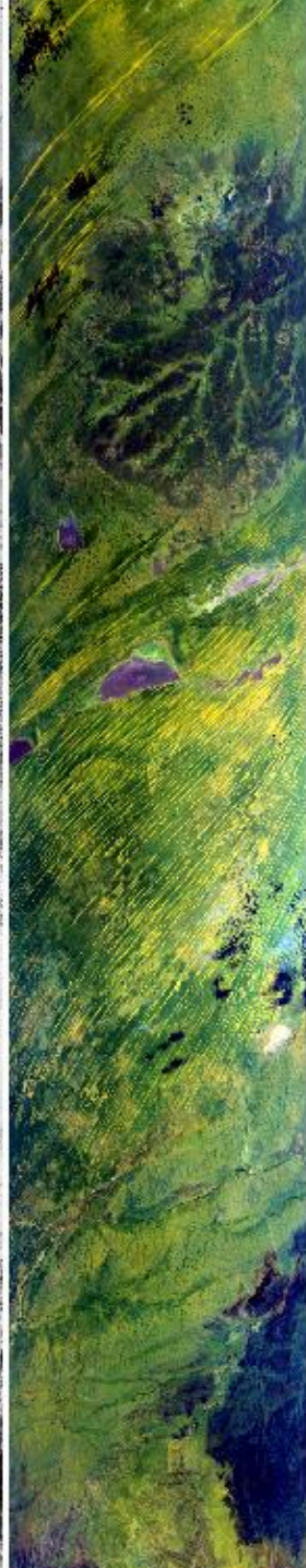
08:25:00

08:27:00

08:29:00

08:31:00

08:33:00



08:25:00

08:27:00

08:29:00

08:31:00

08:33:00

08:33:00



08:35:00



08:37:00



08:39:00



08:41:00



08:33:00

08:35:00

08:37:00

08:39:00

08:41:00

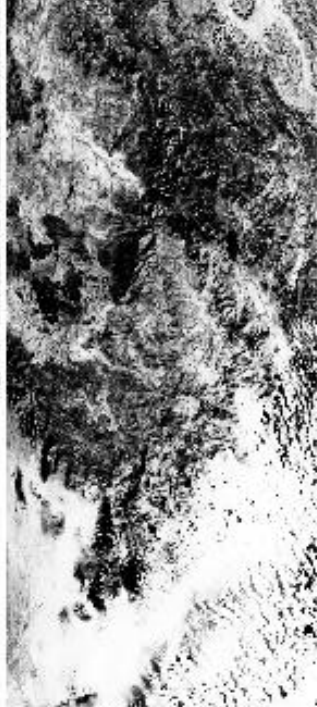
08:41:00

08:43:00

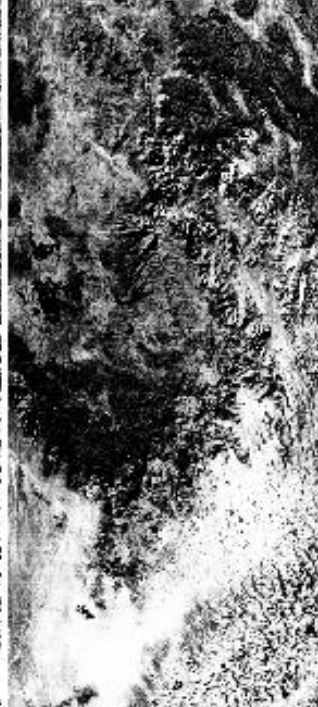
08:45:35



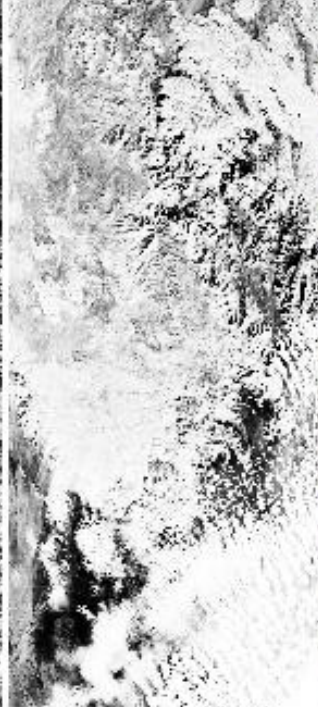
0.66 μ m (#3)



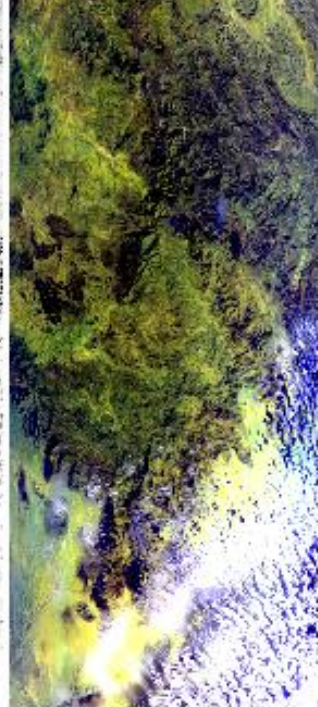
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20, #10, #2)

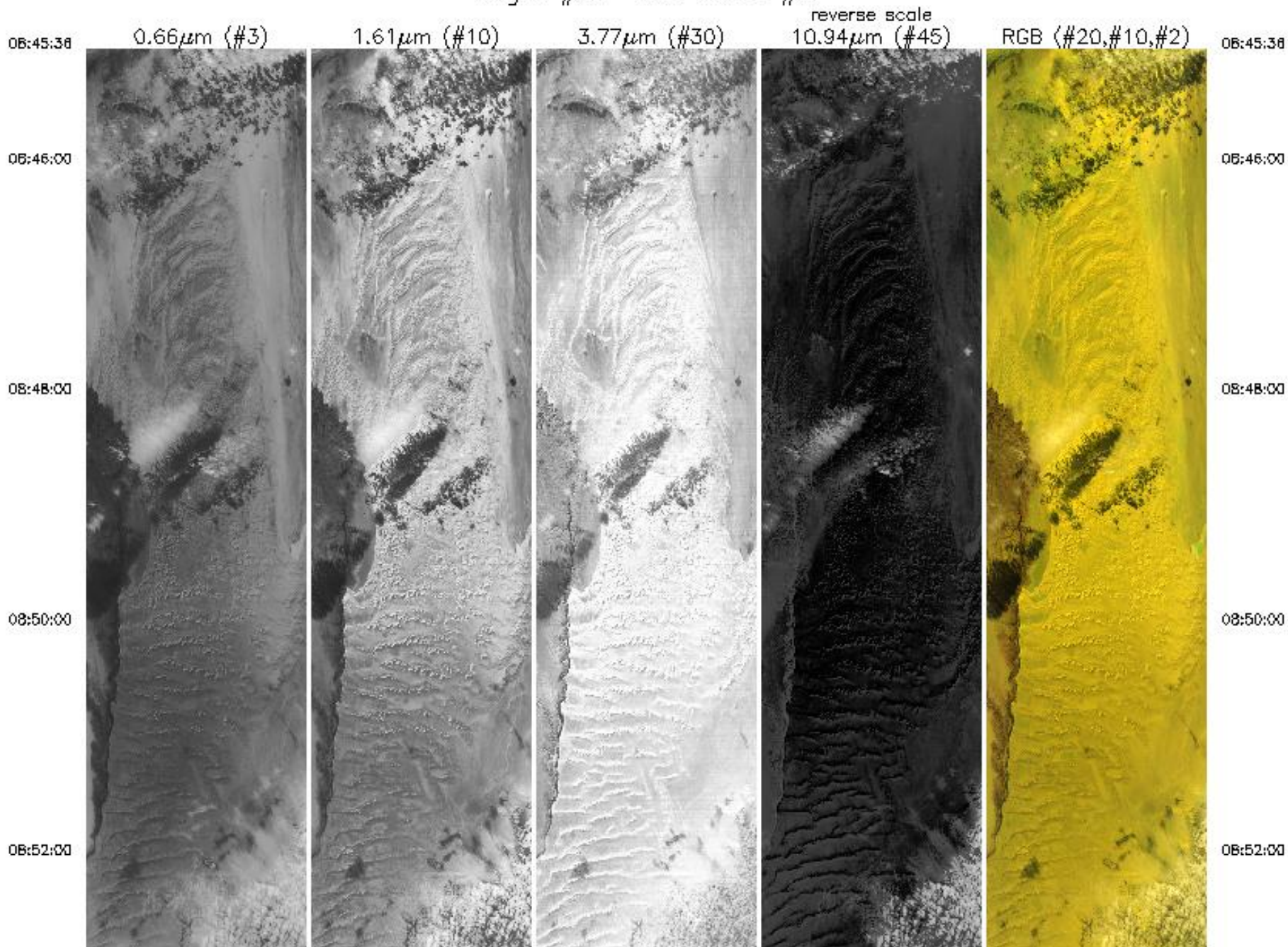
08:41:00

08:43:00

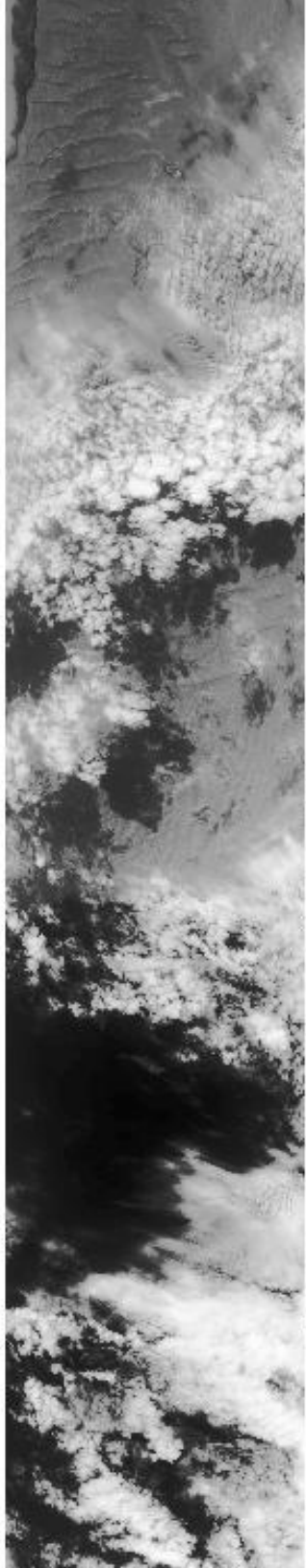
08:45:35

Aircraft Heading = 274.8°
Solar Zenith = 60.4°
GPS Altitude = 19766. m (MSL)

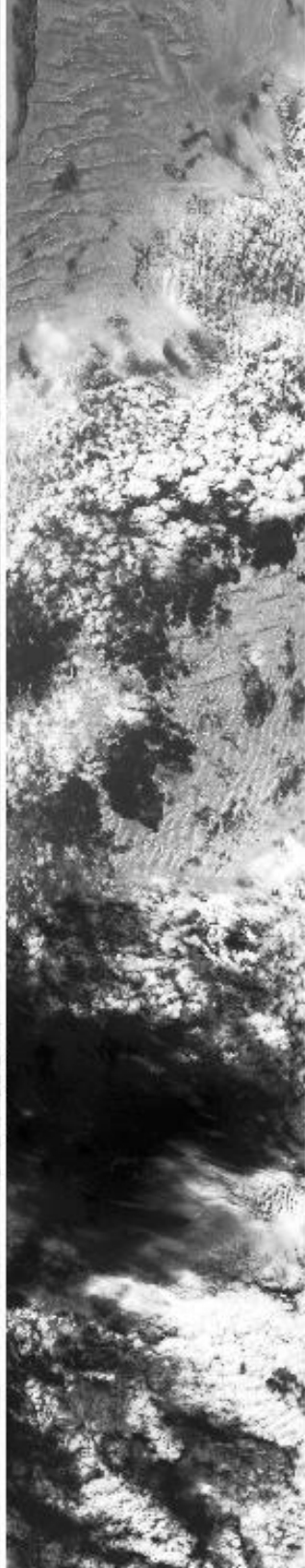
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #5



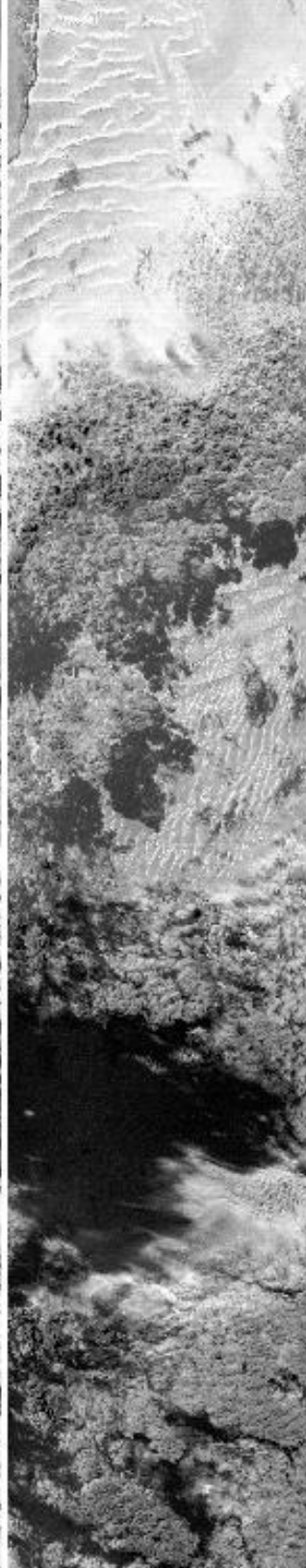
08:52:00



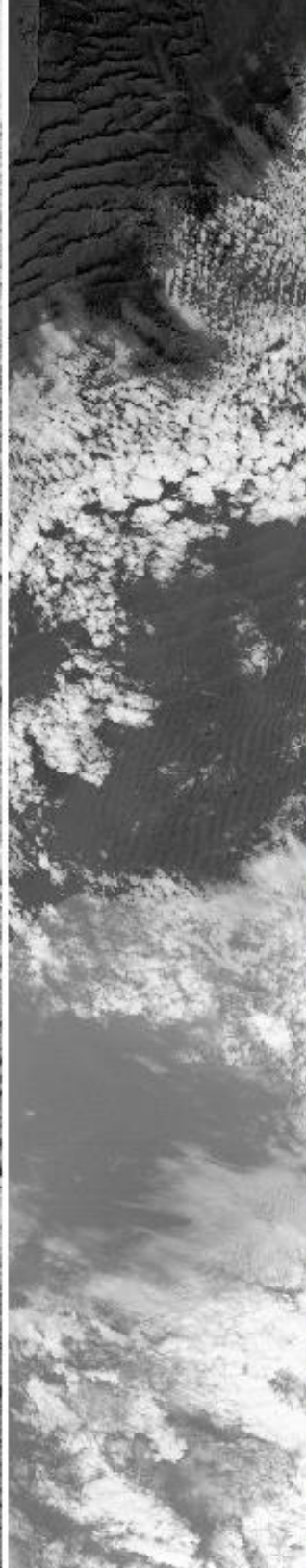
08:54:00



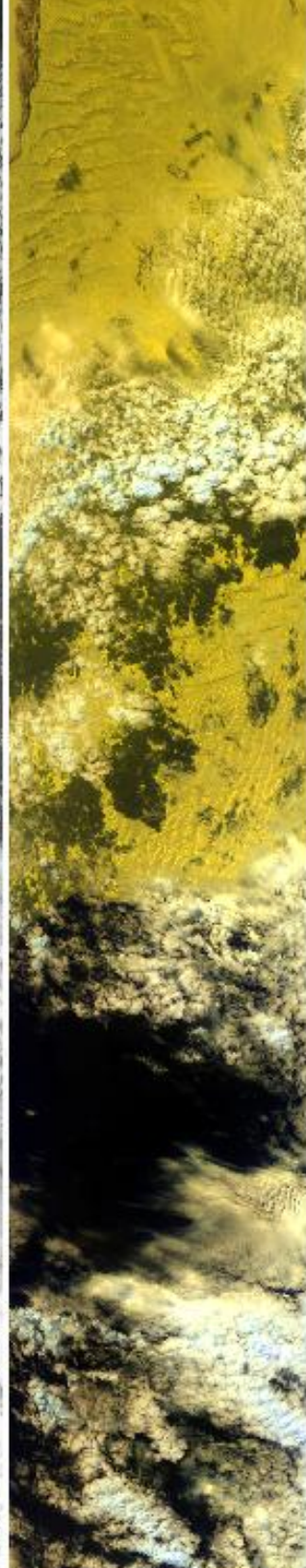
08:56:00



08:58:00



09:00:00



08:52:00

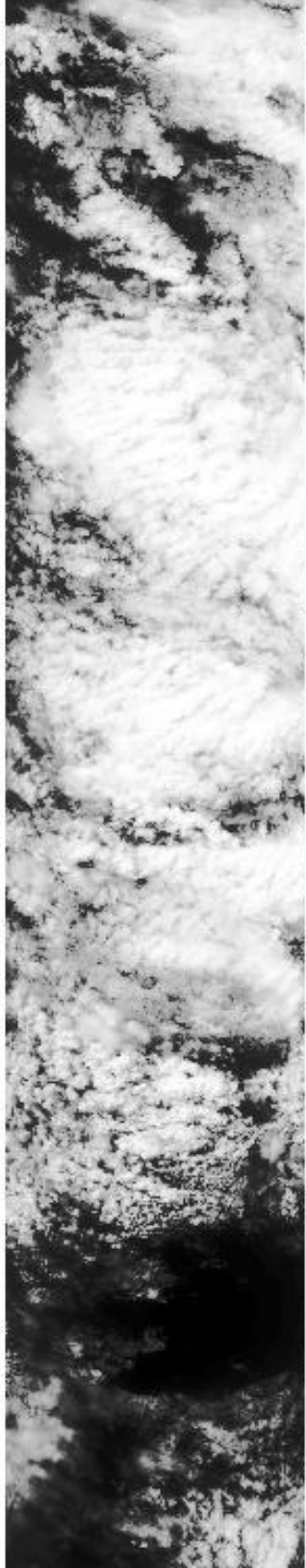
08:54:00

08:56:00

08:58:00

09:00:00

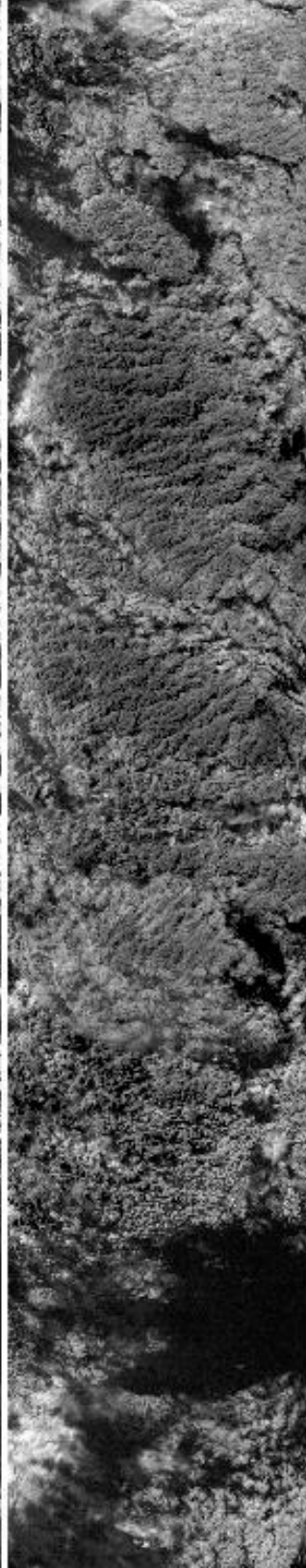
09:00:00



09:02:00



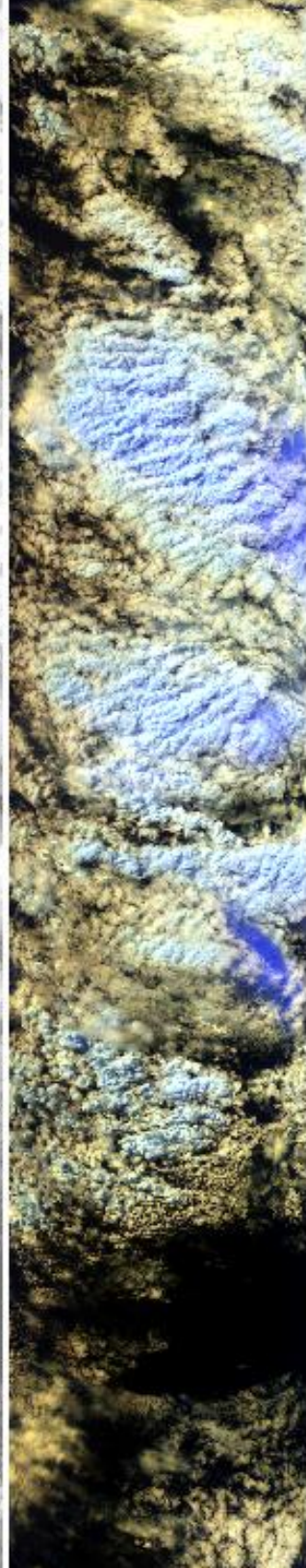
09:04:00



09:06:00



09:08:00



09:00:00

09:02:00

09:04:00

09:06:00

09:08:00

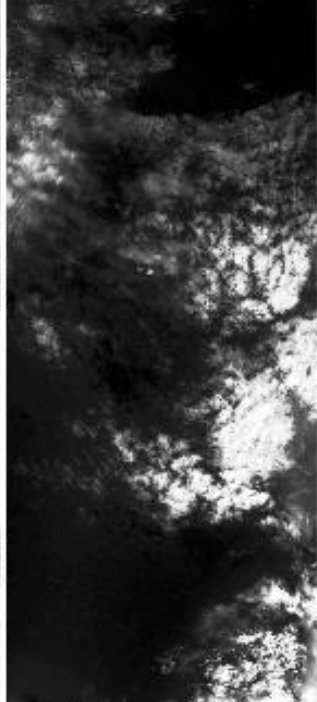
09:08:00

09:10:00

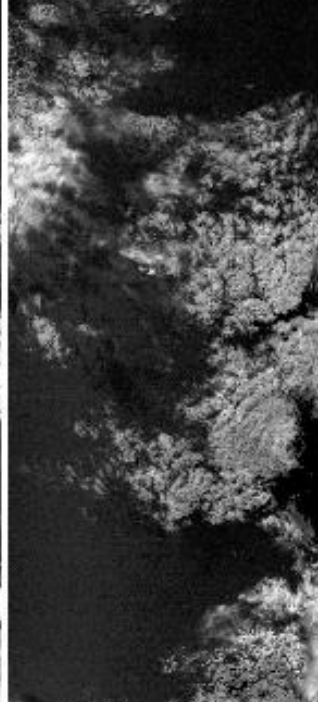
09:12:22



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)

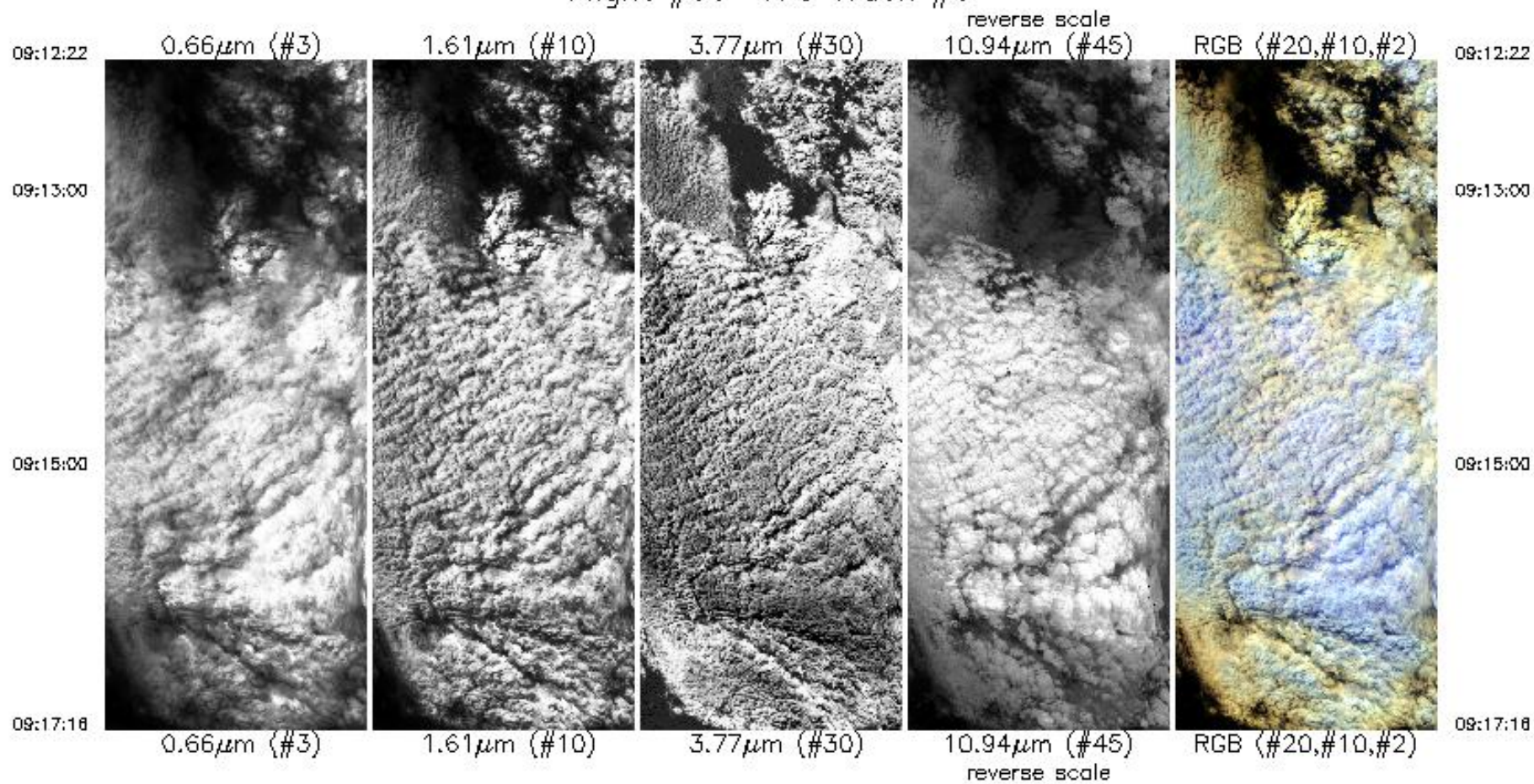
09:08:00

09:10:00

09:12:22

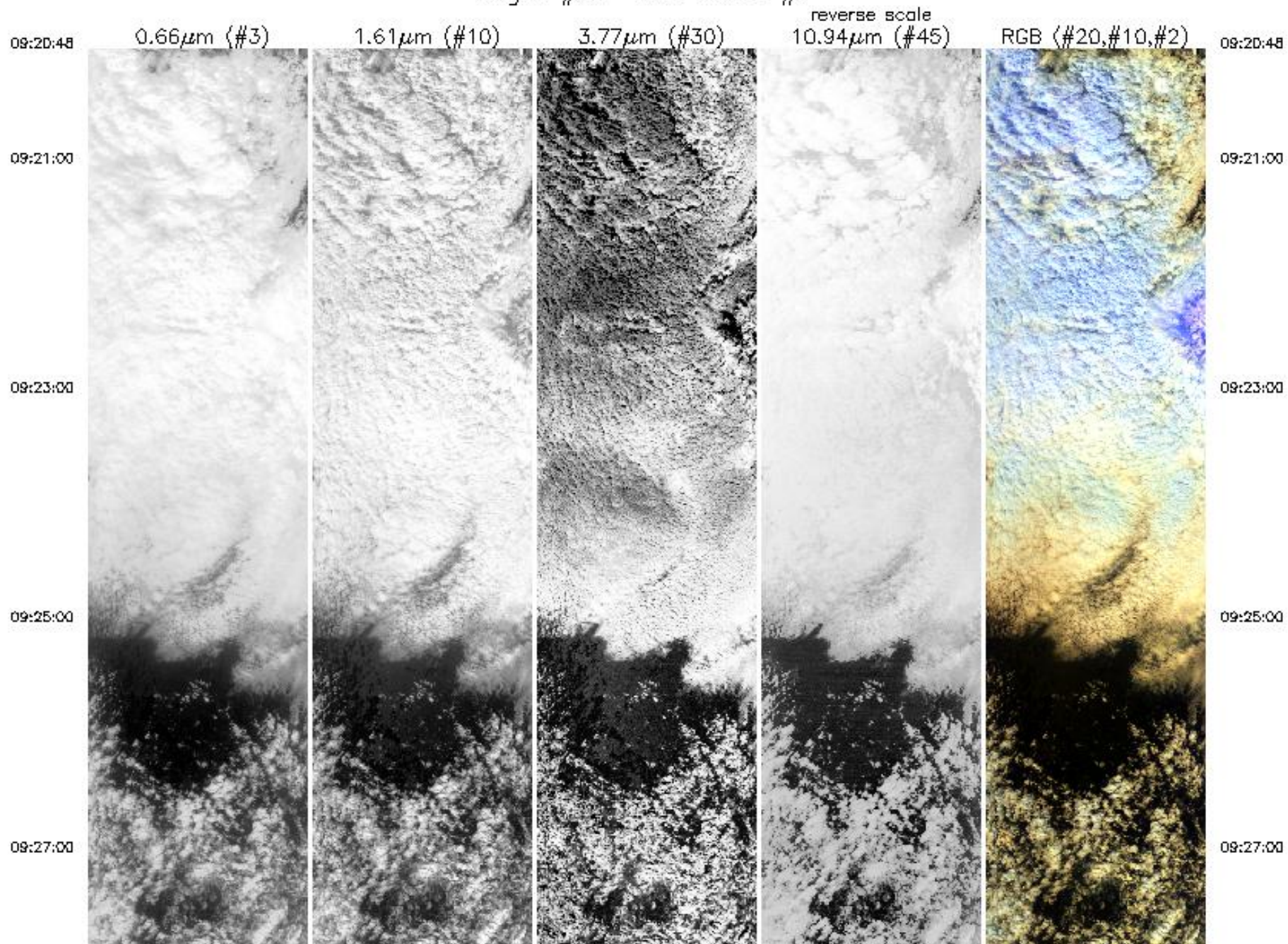
Aircraft Heading = 274.2°
Solar Zenith = 54.6°
GPS Altitude = 19659. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #6



Aircraft Heading = 274.2°
Solar Zenith = 48.9°
GPS Altitude = 19642. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia Coast
Flight #00-175 Track #7



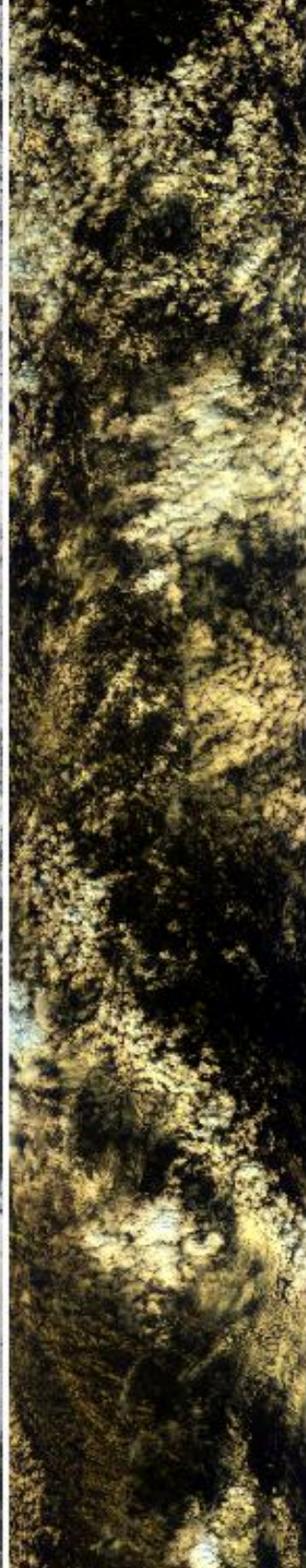
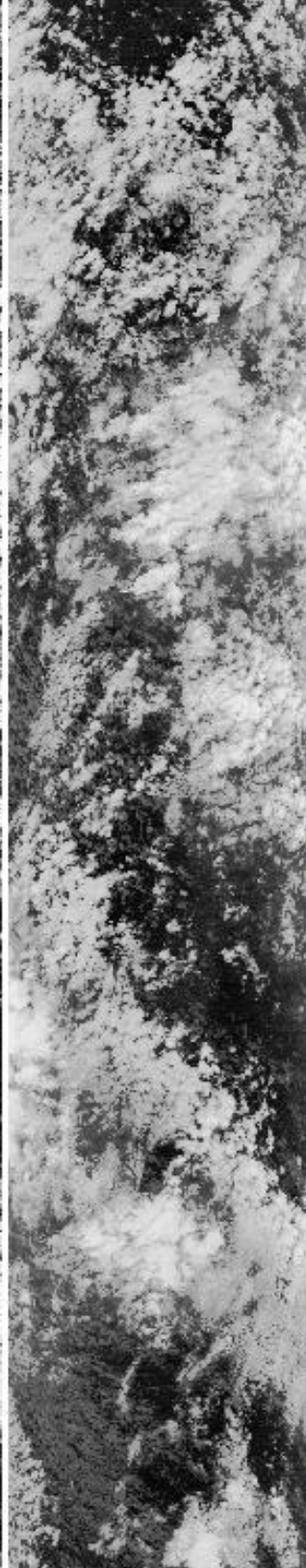
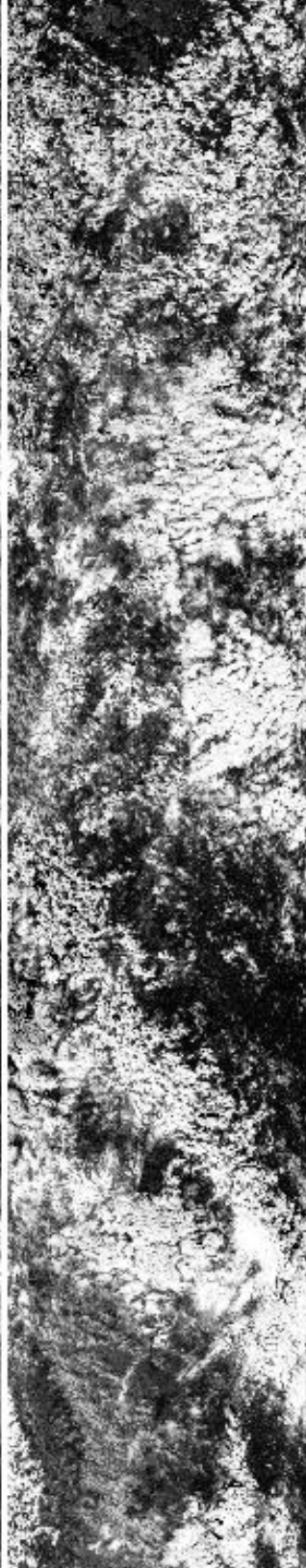
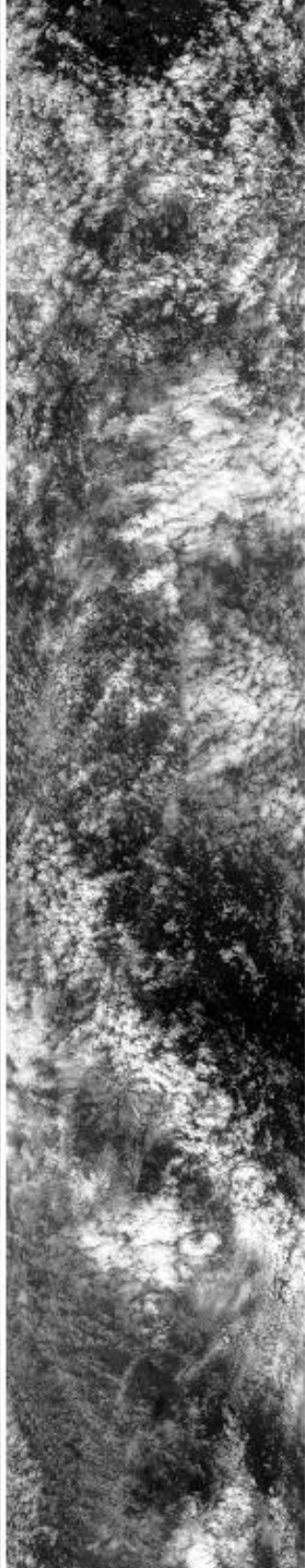
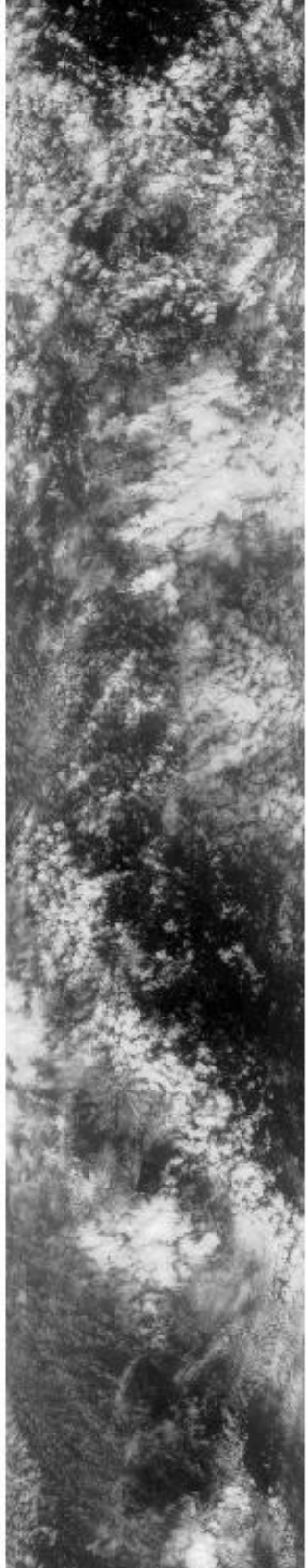
09:27:00

09:28:00

09:31:00

09:33:00

09:35:00



09:27:00

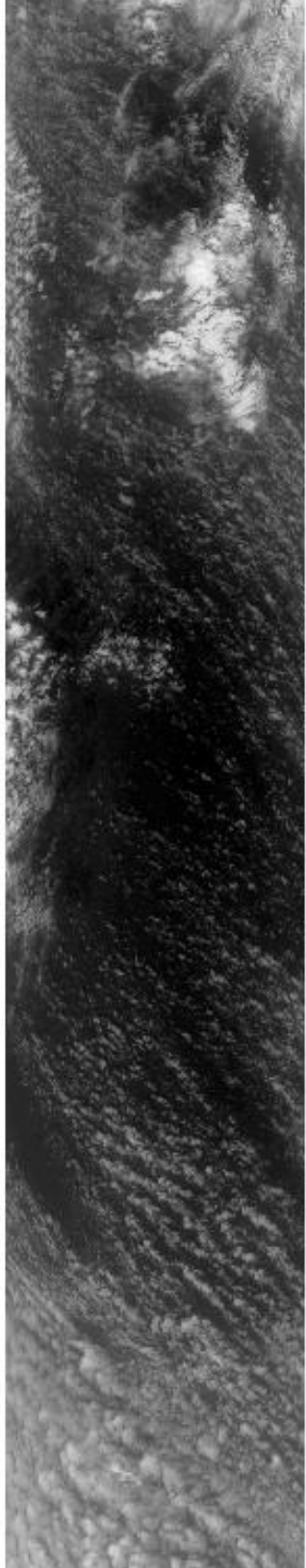
09:28:00

09:31:00

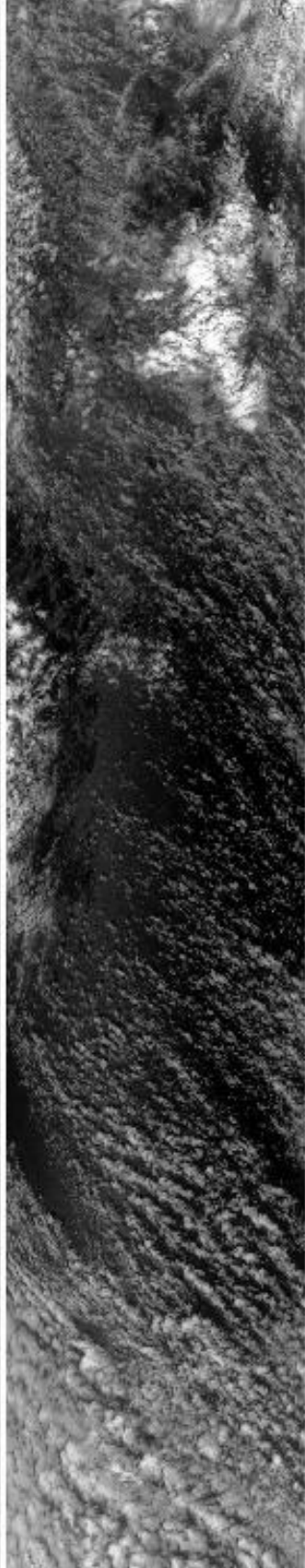
09:33:00

09:35:00

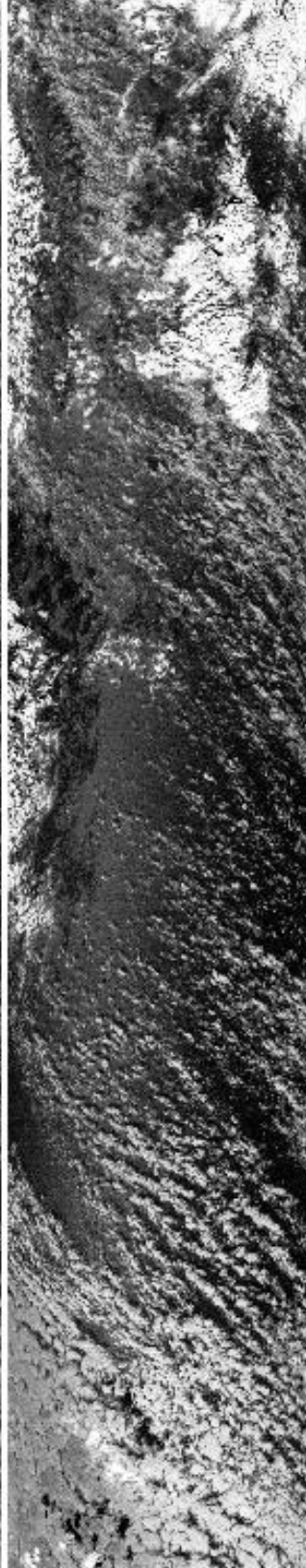
09:35:00



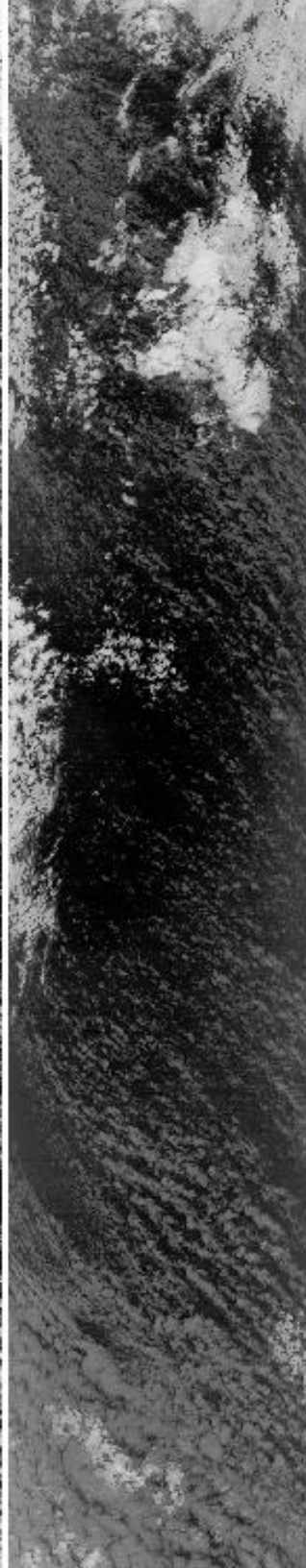
09:37:00



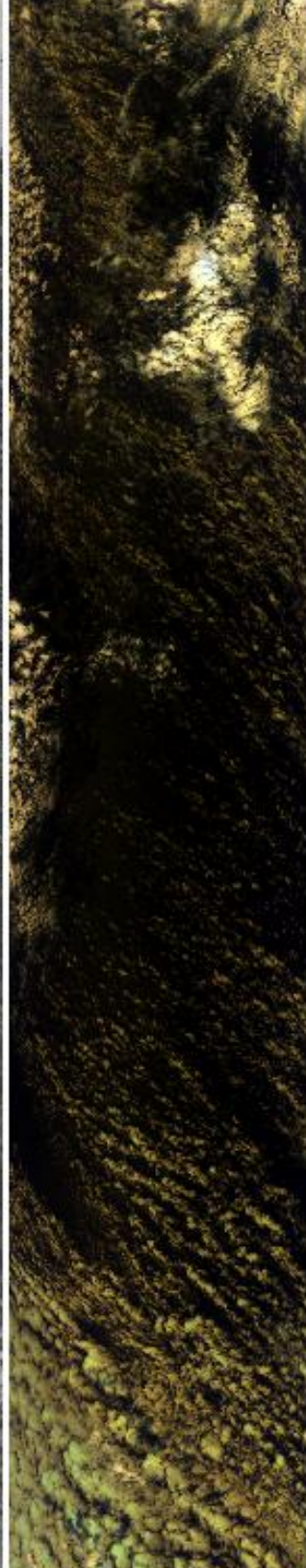
09:38:00



09:41:00



09:43:00



09:35:00

09:37:00

09:38:00

09:41:00

09:43:00

09:43:00

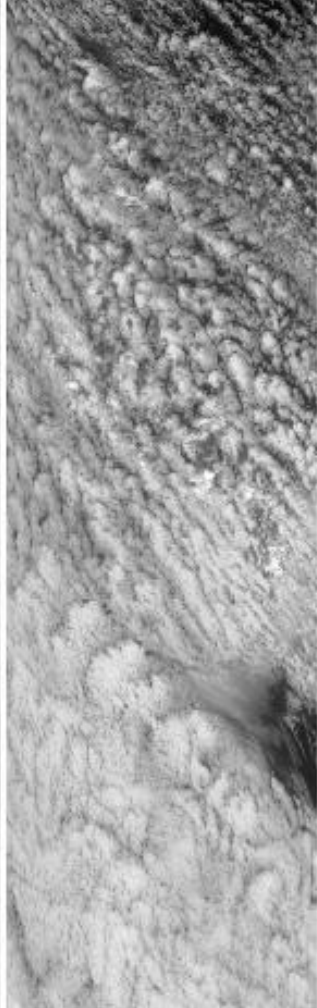
09:45:00

09:47:00

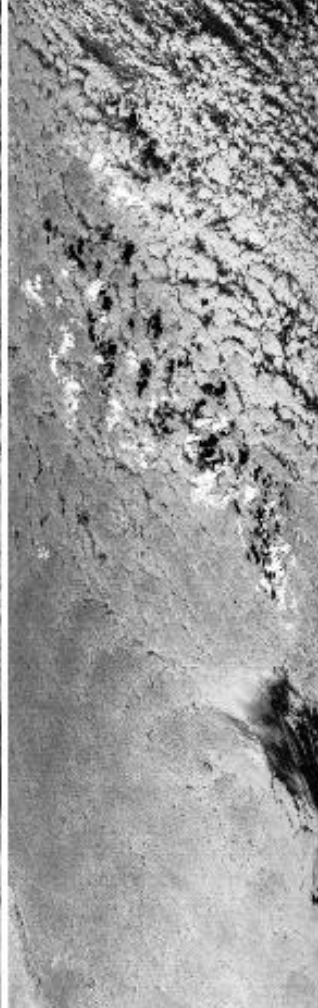
09:48:27



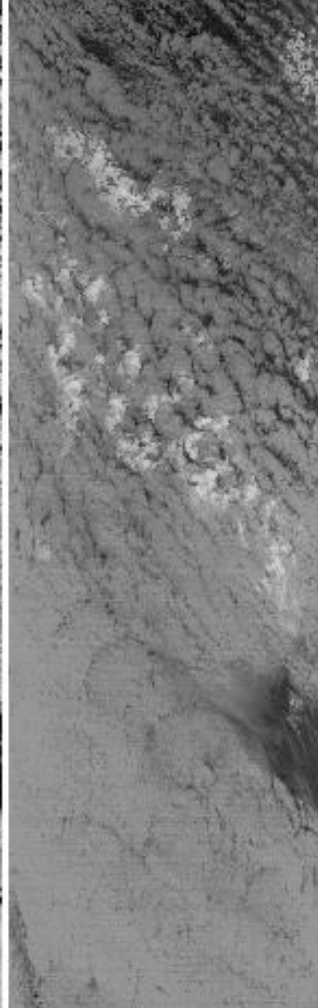
0.66µm (#3)



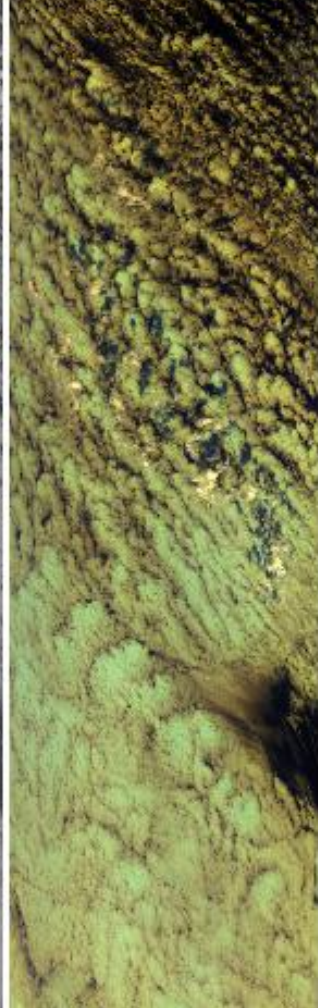
1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

09:43:00

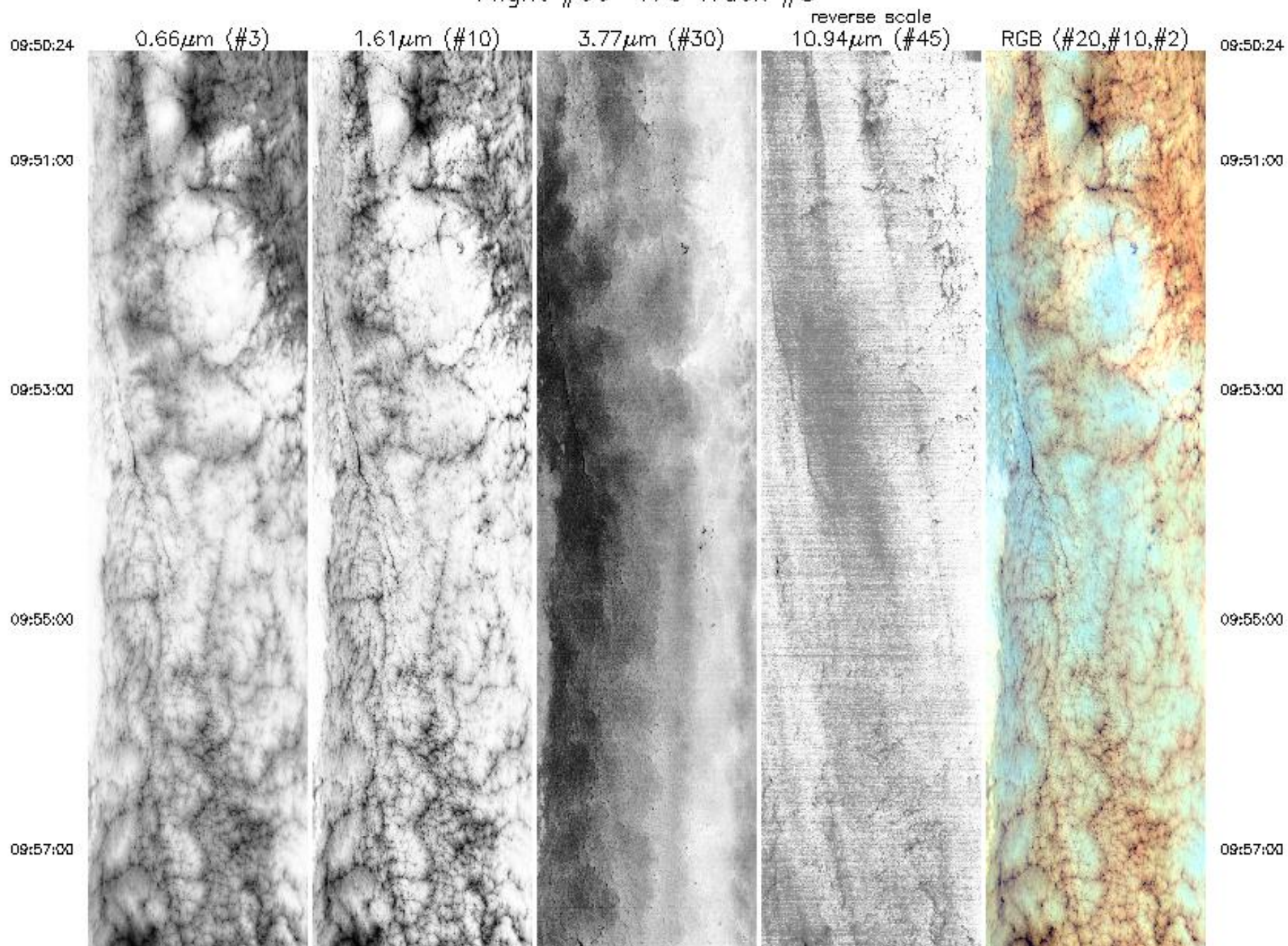
09:45:00

09:47:00

09:48:27

Aircraft Heading = 10.7°
 Solar Zenith = 47.4°
 GPS Altitude = 19715. m (MSL)

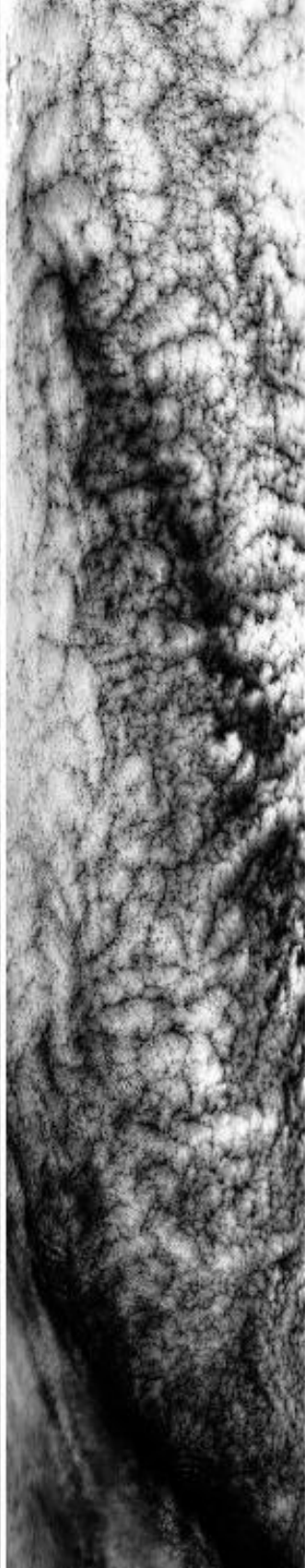
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia Coast
Flight #00-175 Track #8



09:57:00



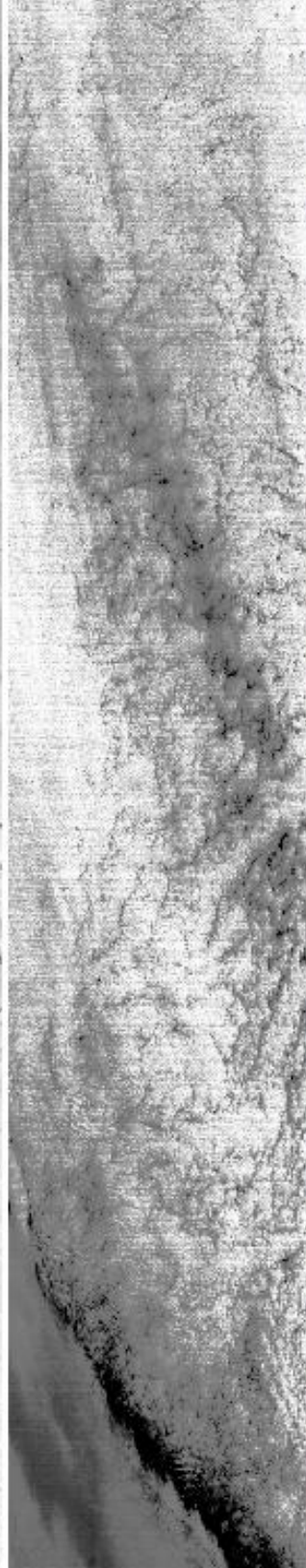
09:59:00



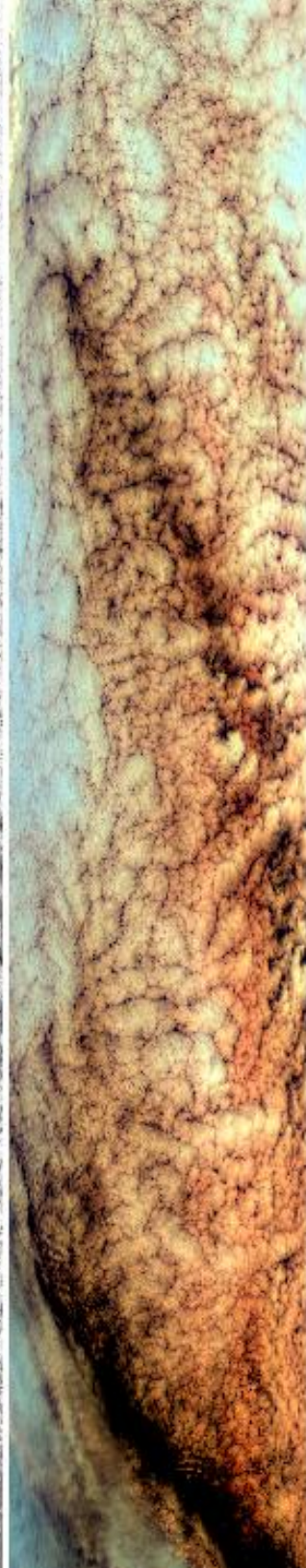
10:01:00



10:03:00



10:05:00



09:57:00

09:59:00

10:01:00

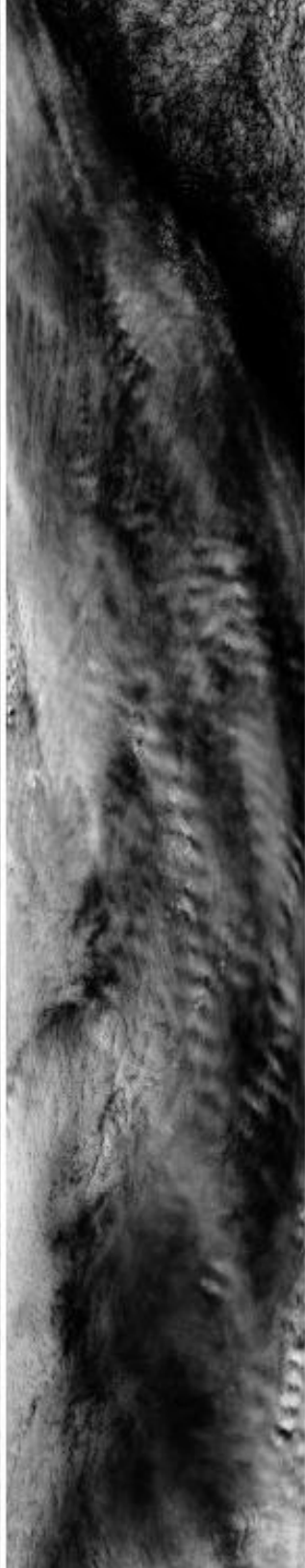
10:03:00

10:05:00

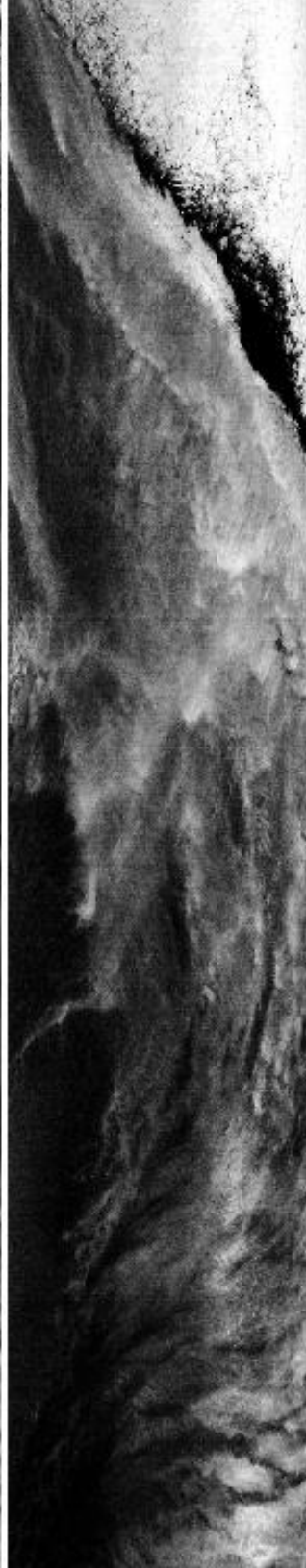
10:05:00



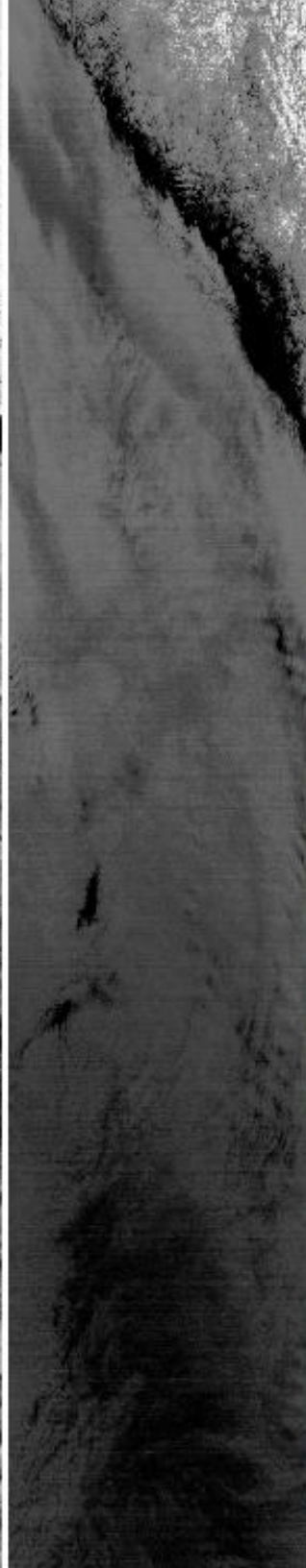
10:07:00



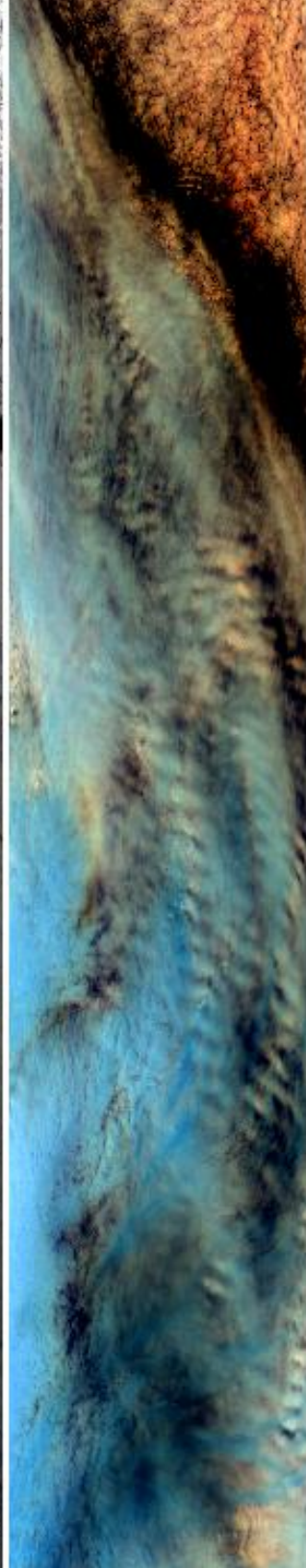
10:09:00



10:11:00



10:13:00



10:05:00

10:07:00

10:09:00

10:11:00

10:13:00

10:13:00

10:15:00

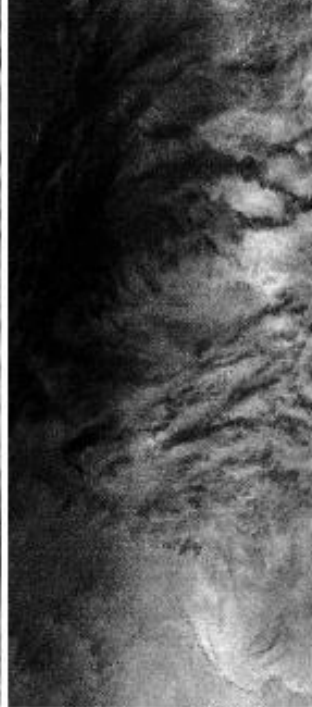
10:17:10



0.66 μ m (#3)



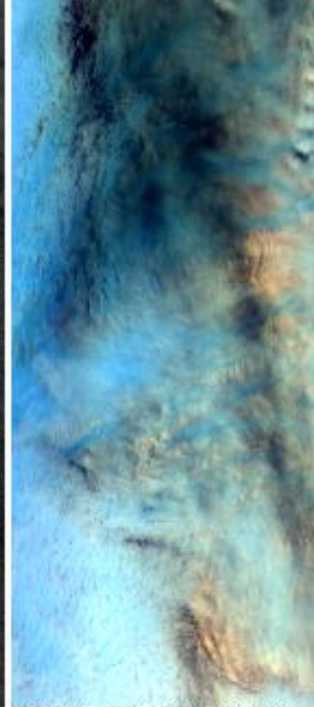
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20, #10, #2)

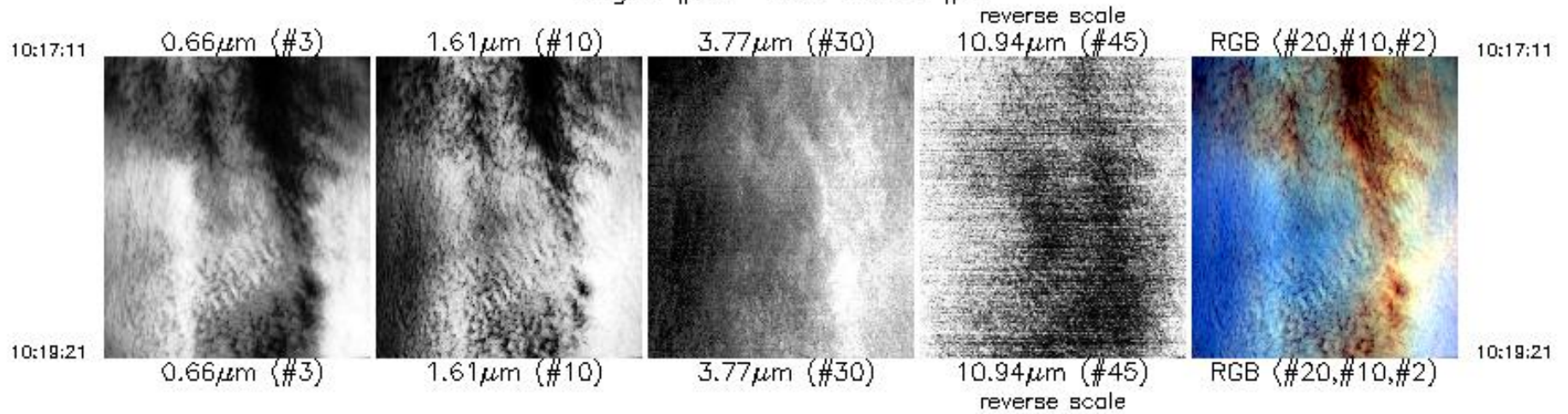
10:13:00

10:15:00

10:17:10

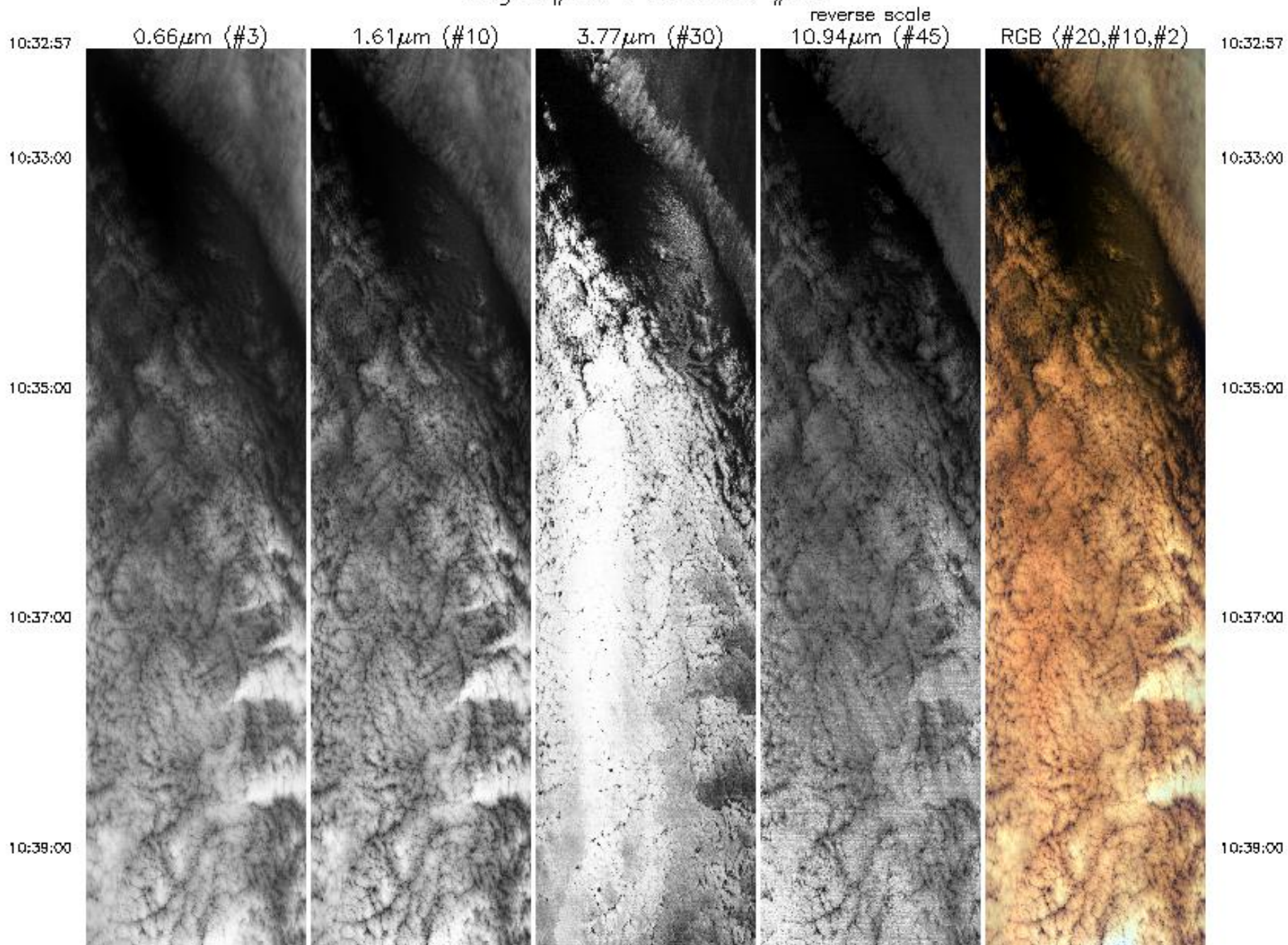
Aircraft Heading = 333.3°
Solar Zenith = 39.8°
GPS Altitude = 19843. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia Coast
Flight #00-175 Track #9



Aircraft Heading = 332.4°
Solar Zenith = 33.1°
GPS Altitude = 19879. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia Coast
Flight #00-175 Track #10



10:39:00



10:41:00



10:43:00



10:45:00



10:47:00



10:39:00

10:41:00

10:43:00

10:45:00

10:47:00

10:47:00

10:49:00

10:51:00

10:53:00

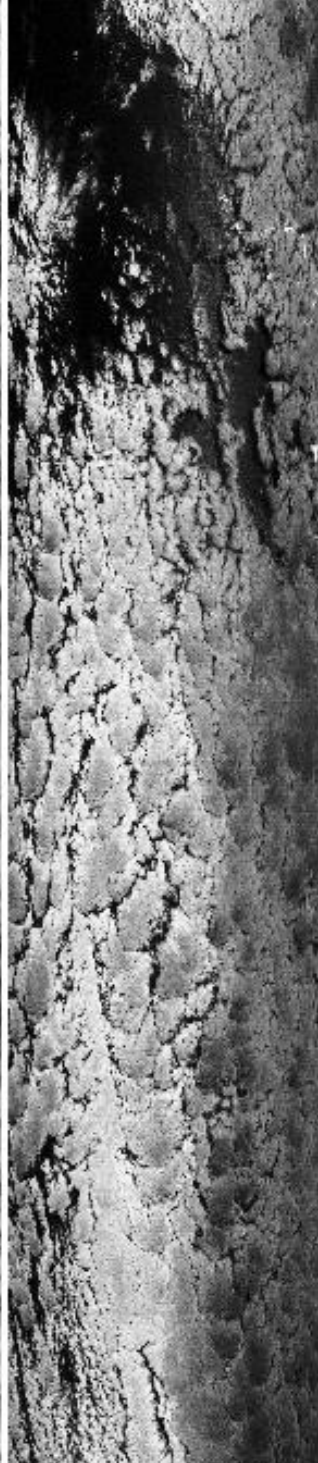
10:58:11



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20,#10,#2)

10:47:00

10:49:00

10:51:00

10:53:00

10:58:11

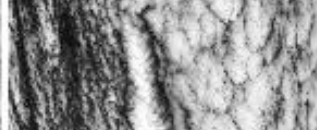
Aircraft Heading = 150.9°

Solar Zenith = 31.0°

10:56:11



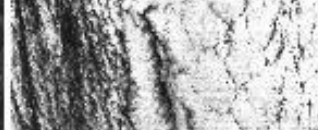
0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale

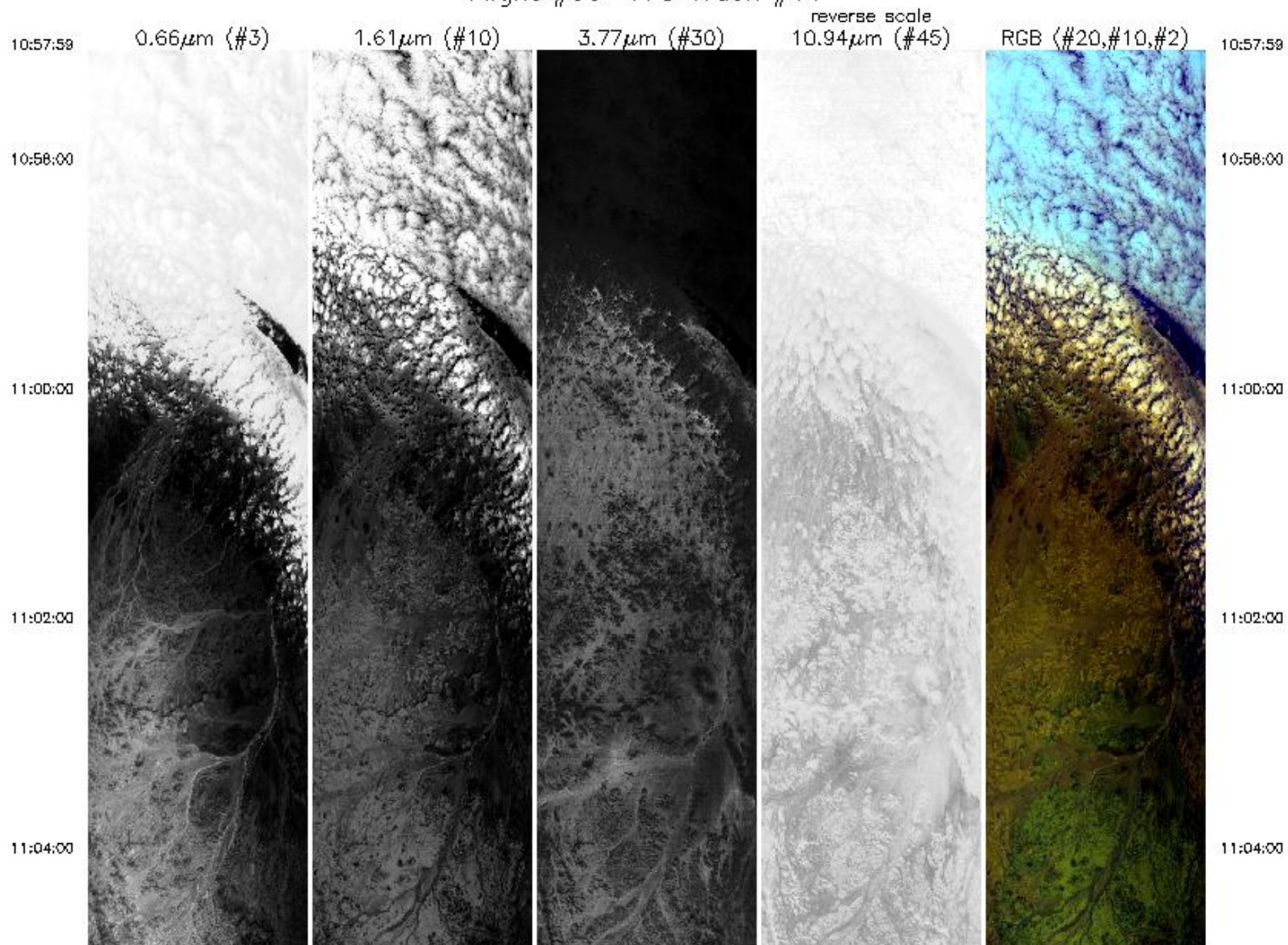


RGB (#20,#10,#2)

10:56:11

Aircraft Heading = 150.9°
Solar Zenith = 31.0°
GPS Altitude = 19986. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #11



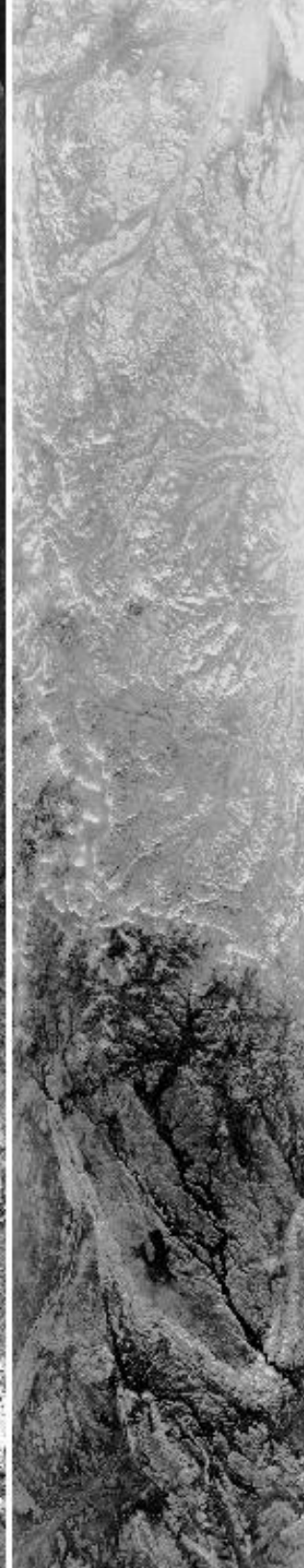
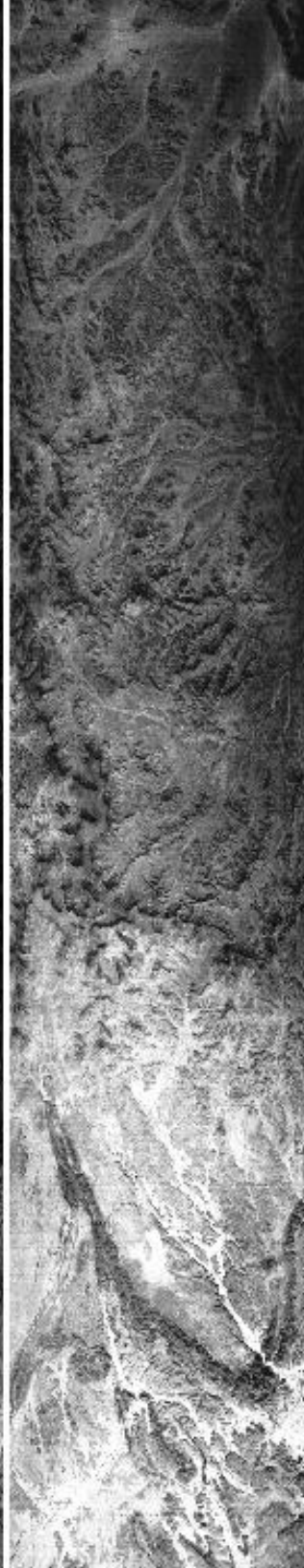
11:04:00

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



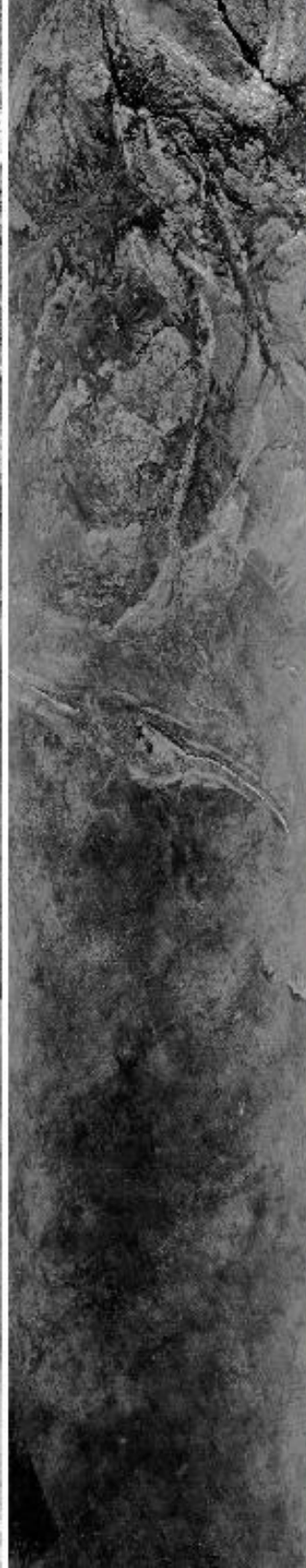
11:14:00



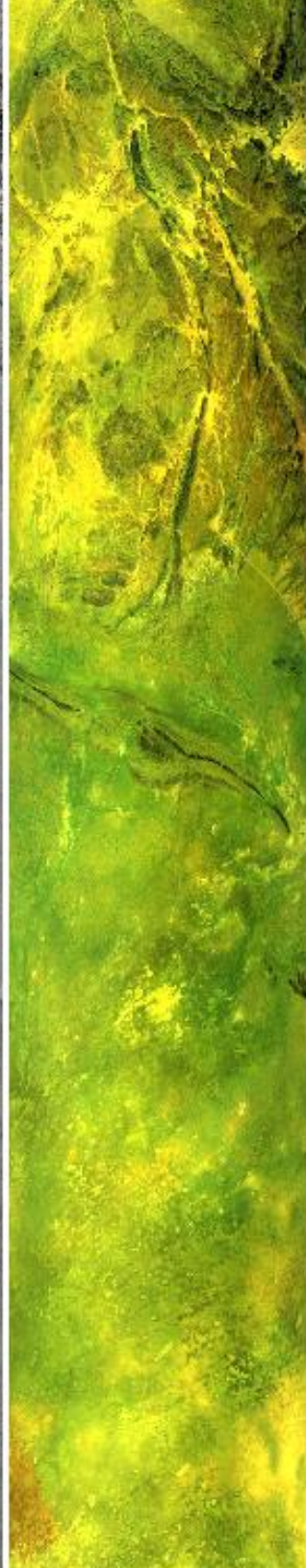
11:16:00



11:18:00



11:20:00



11:12:00

11:14:00

11:16:00

11:18:00

11:20:00

11:20:00

11:22:00

11:24:48



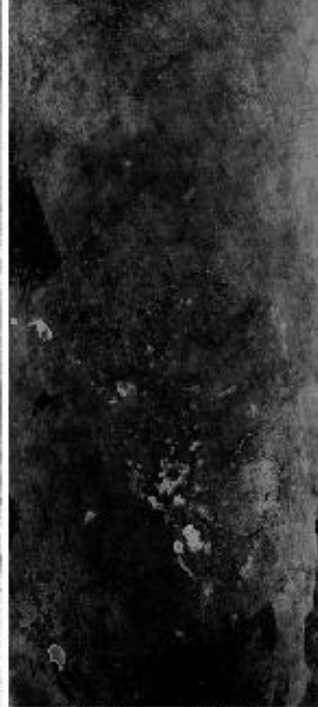
0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

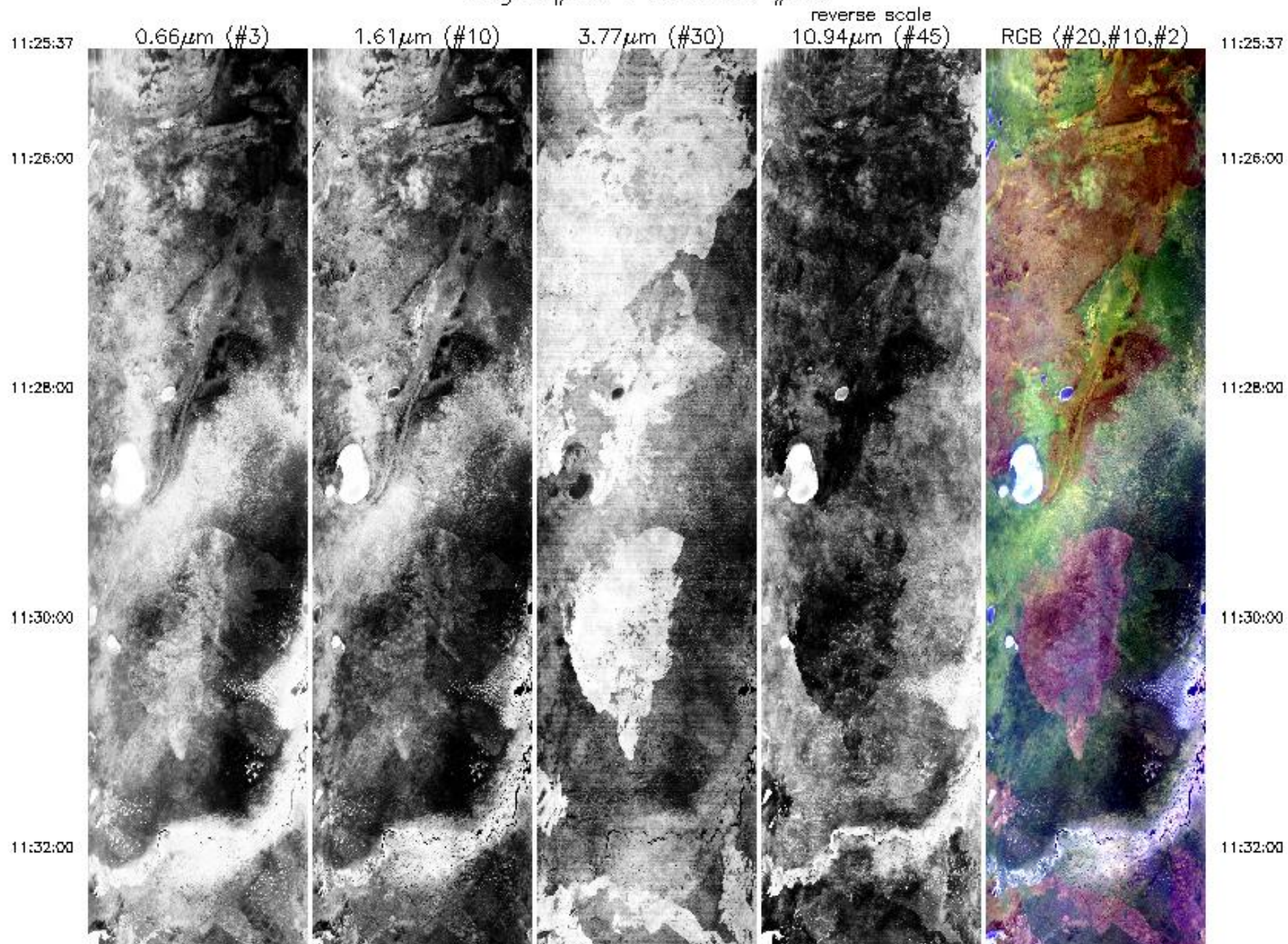
11:20:00

11:22:00

11:24:48

Aircraft Heading = 39.2°
Solar Zenith = 28.9°
GPS Altitude = 20064. m (MSL)

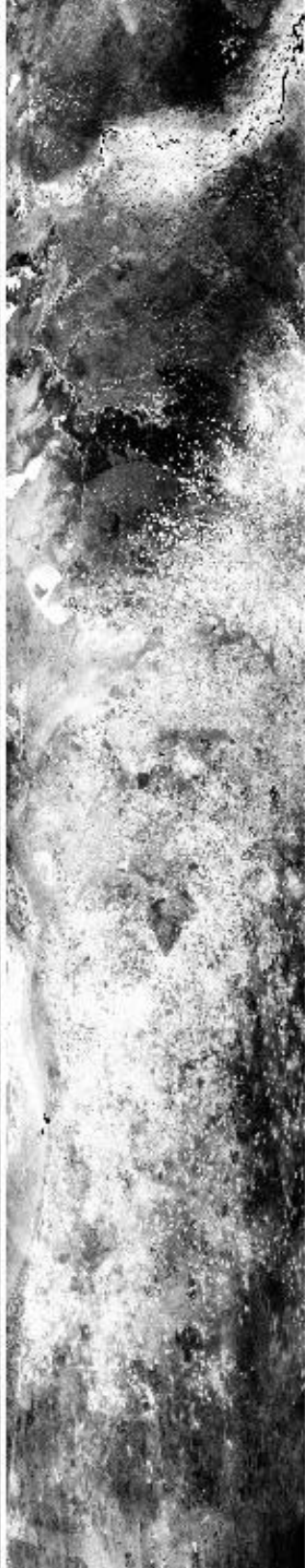
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #12



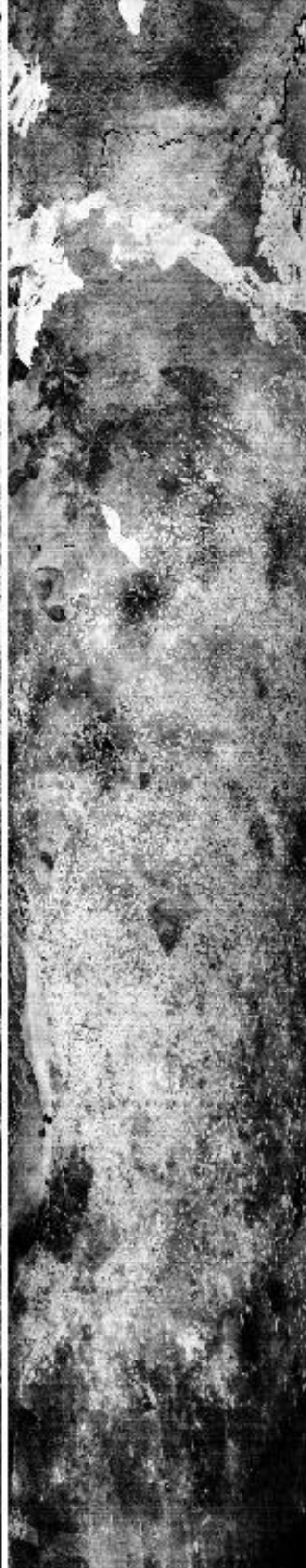
11:32:00



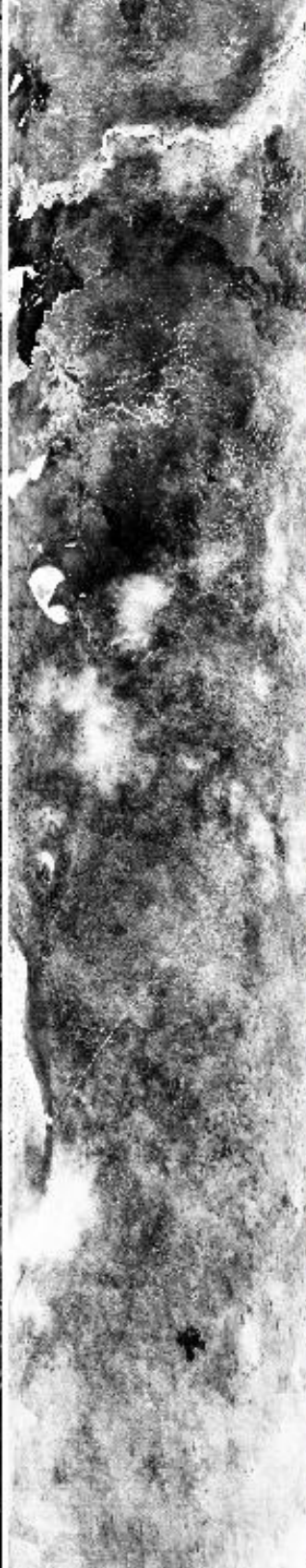
11:34:00



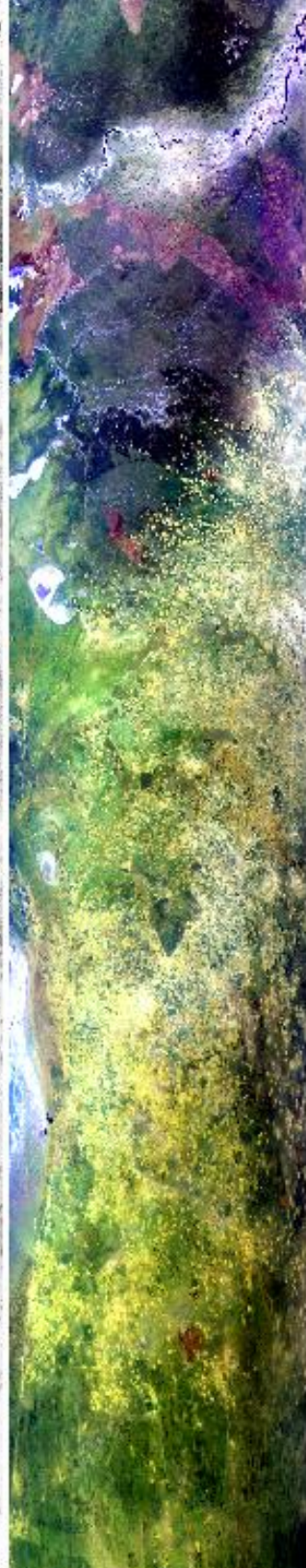
11:36:00



11:38:00



11:40:00



11:32:00

11:34:00

11:36:00

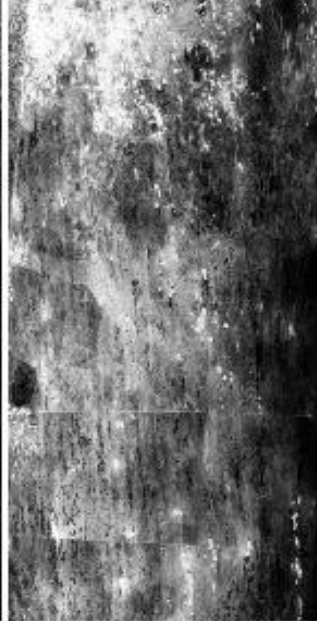
11:38:00

11:40:00

11:40:00



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)

11:42:00

11:43:38

11:40:00

11:42:00

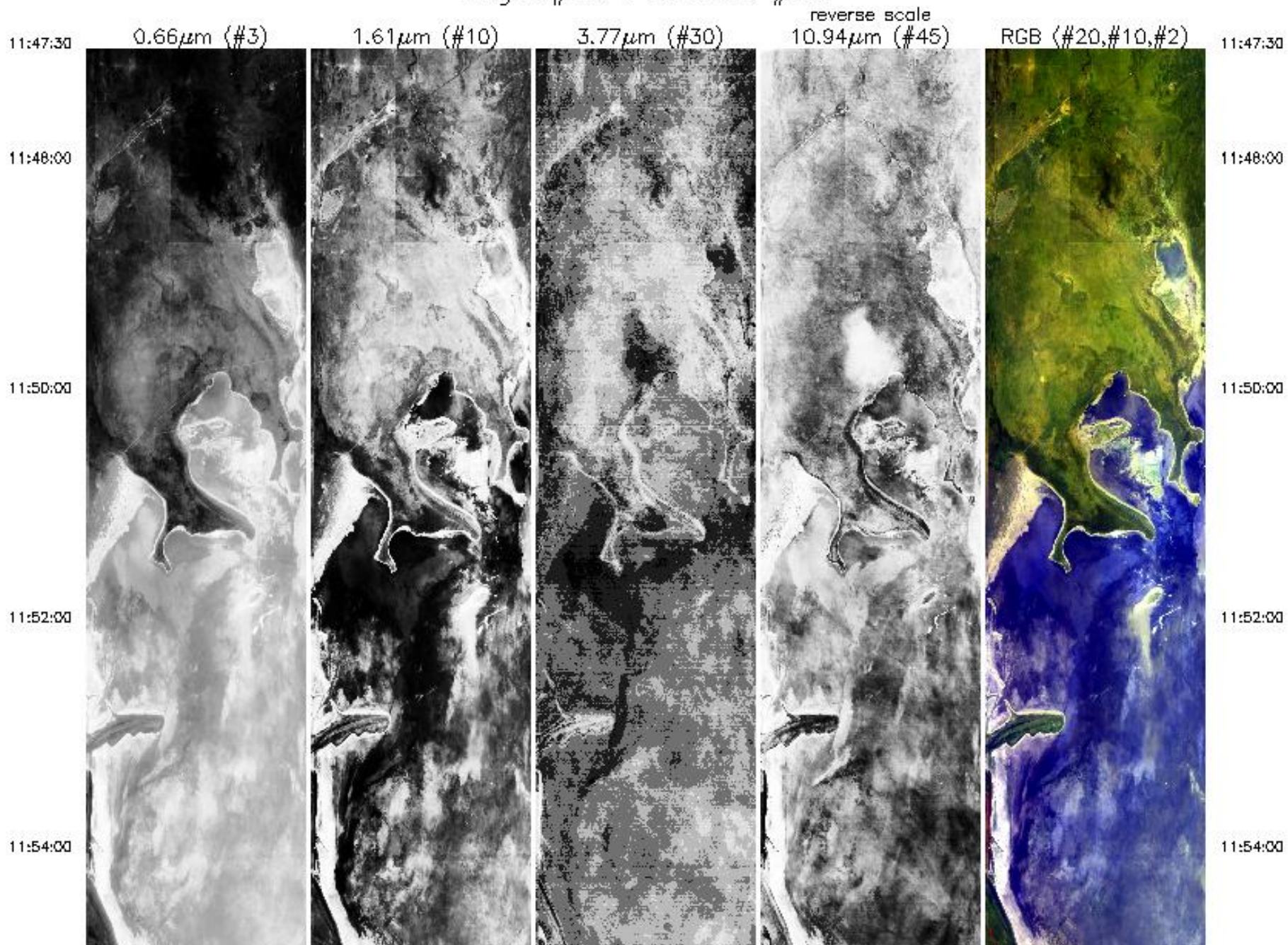
11:43:38

Aircraft Heading = 78.8°

Solar Zenith = 23.6°

GPS Altitude = 20204. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #13



11:54:00



11:56:00



11:58:00



12:00:00



12:02:00



11:54:00

11:56:00

11:58:00

12:00:00

12:02:00

12:02:00



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)

12:04:00

12:05:28

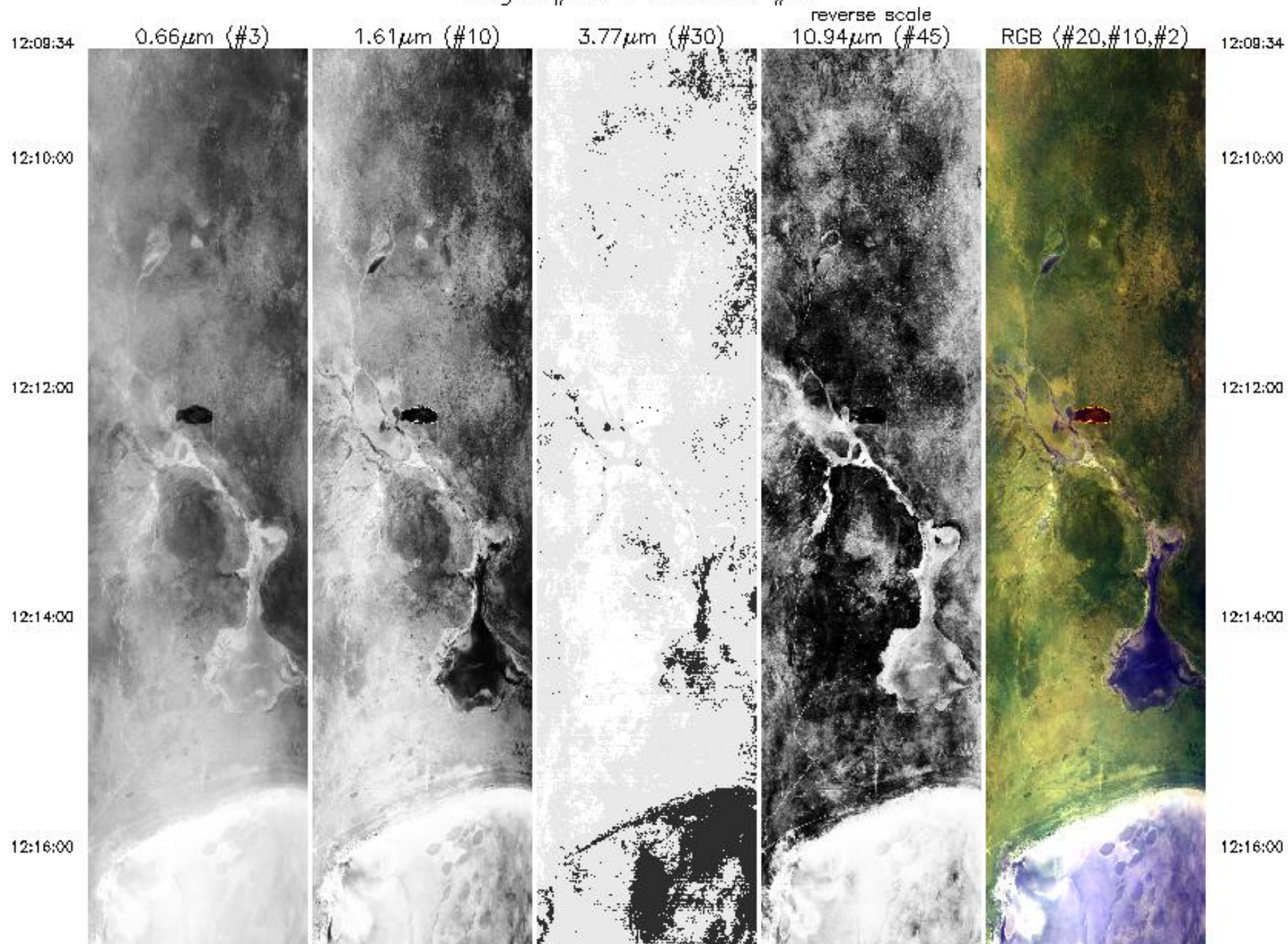
12:02:00

12:04:00

12:05:28

Aircraft Heading = 266.7°
Solar Zenith = 22.2°
GPS Altitude = 19913. m (MSL)

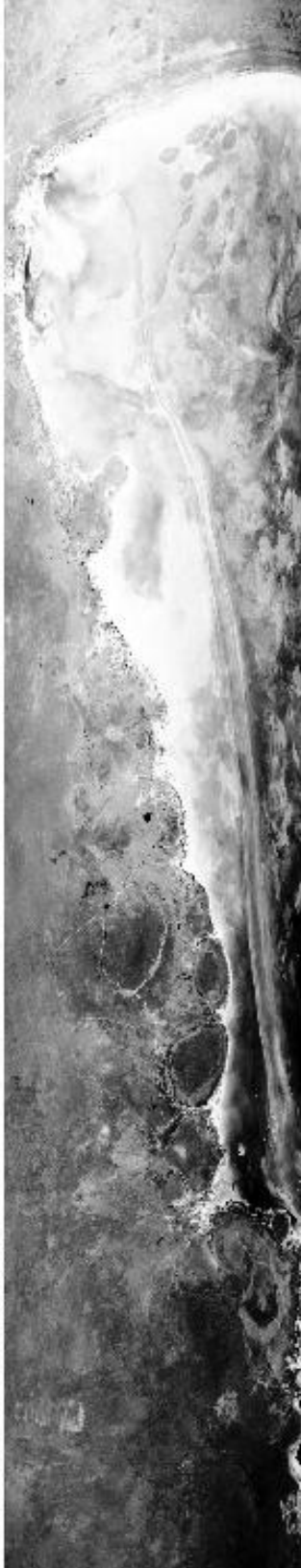
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #14



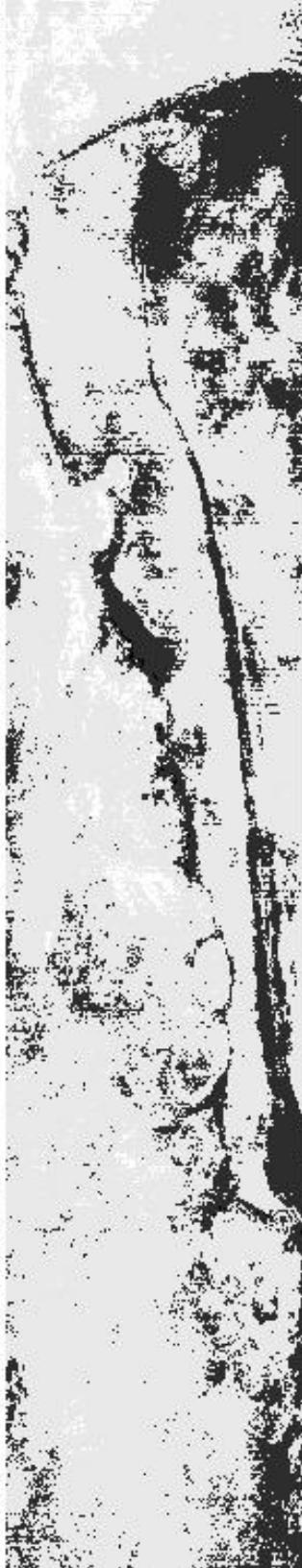
12:16:00



12:18:00



12:20:00



12:22:00



12:24:00



12:16:00

12:18:00

12:20:00

12:22:00

12:24:00

12:24:00

12:26:00

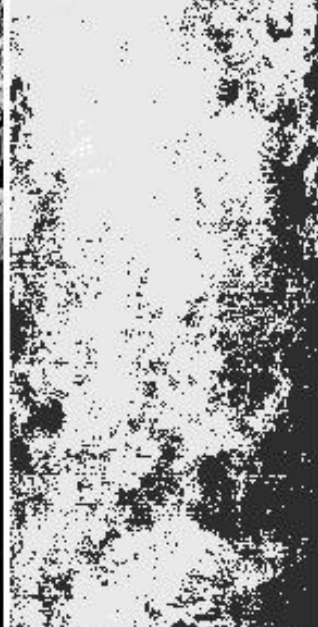
12:27:39



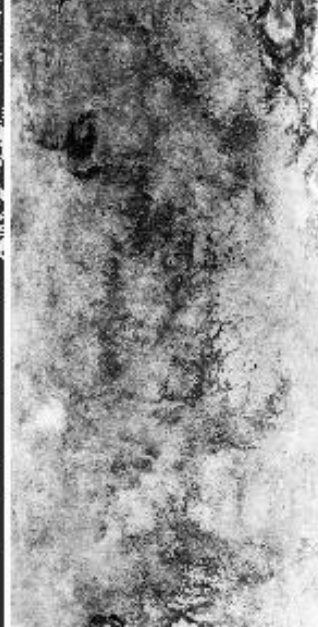
0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

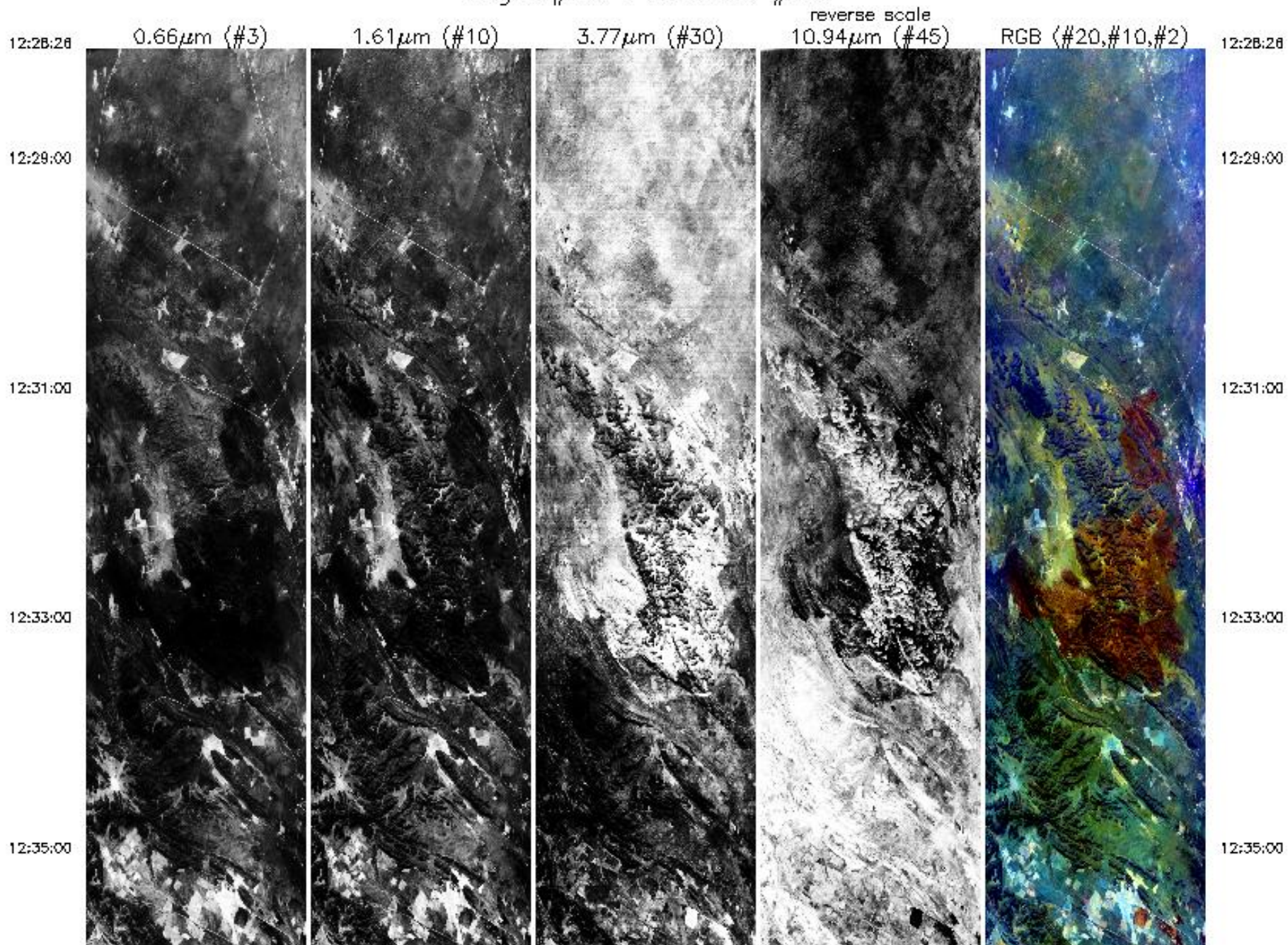
12:24:00

12:26:00

12:27:39

Aircraft Heading = 94.1°
Solar Zenith = 22.8°
GPS Altitude = 19970. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #15



12:35:00



12:37:00



12:39:00



12:41:00



12:43:00



12:35:00

12:37:00

12:39:00

12:41:00

12:43:00

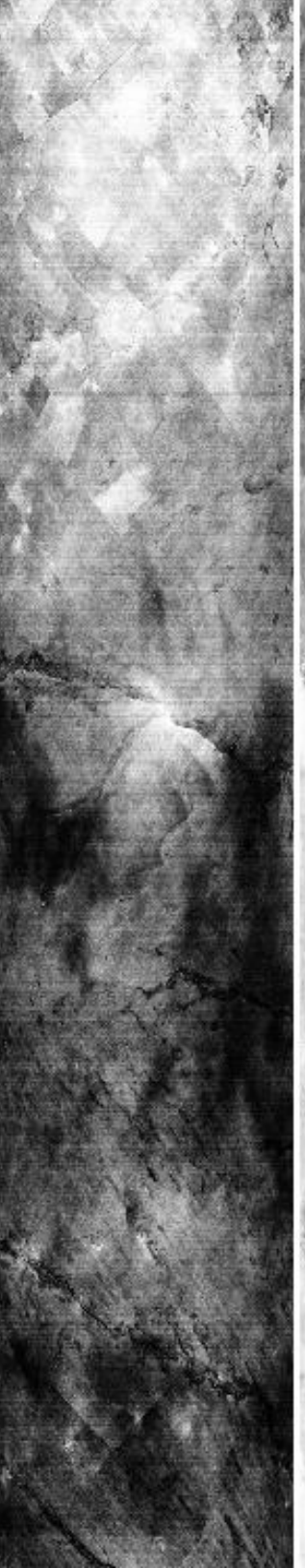
12:43:00



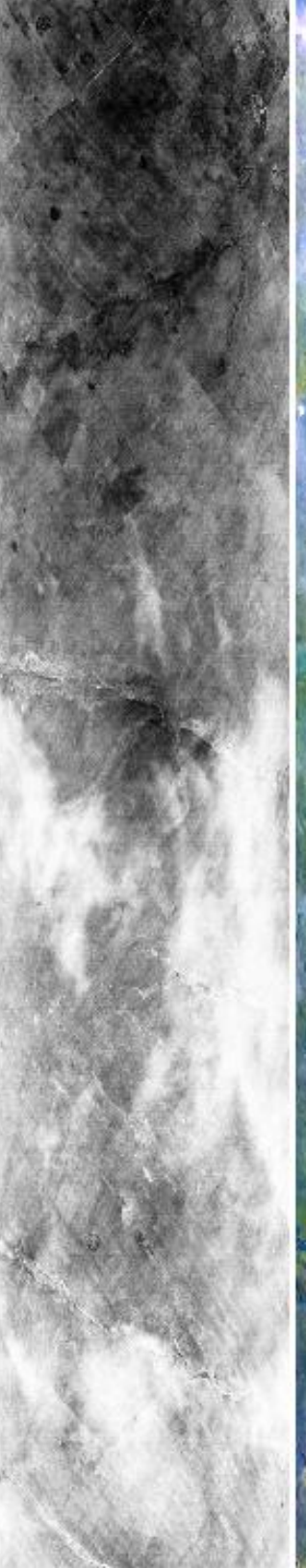
12:45:00



12:47:00



12:49:00



12:51:00



12:43:00

12:45:00

12:47:00

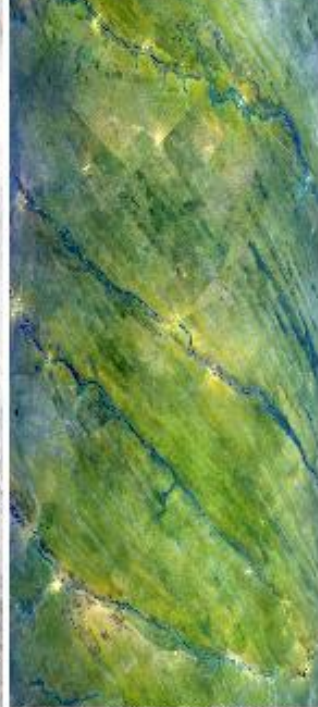
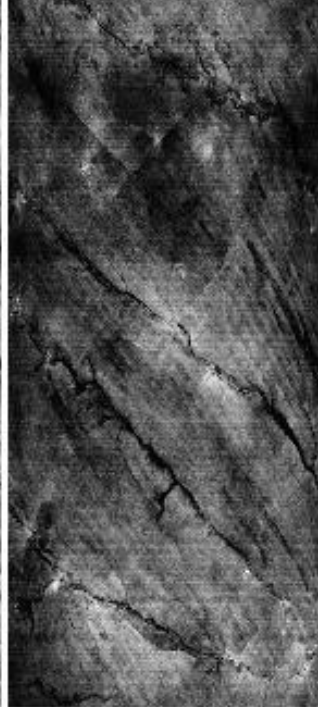
12:49:00

12:51:00

12:51:00

12:53:00

12:55:13



12:51:00

12:53:00

12:55:13

0.66 μ m (#3)

1.61 μ m (#10)

3.77 μ m (#30)

10.94 μ m (#45)
reverse scale

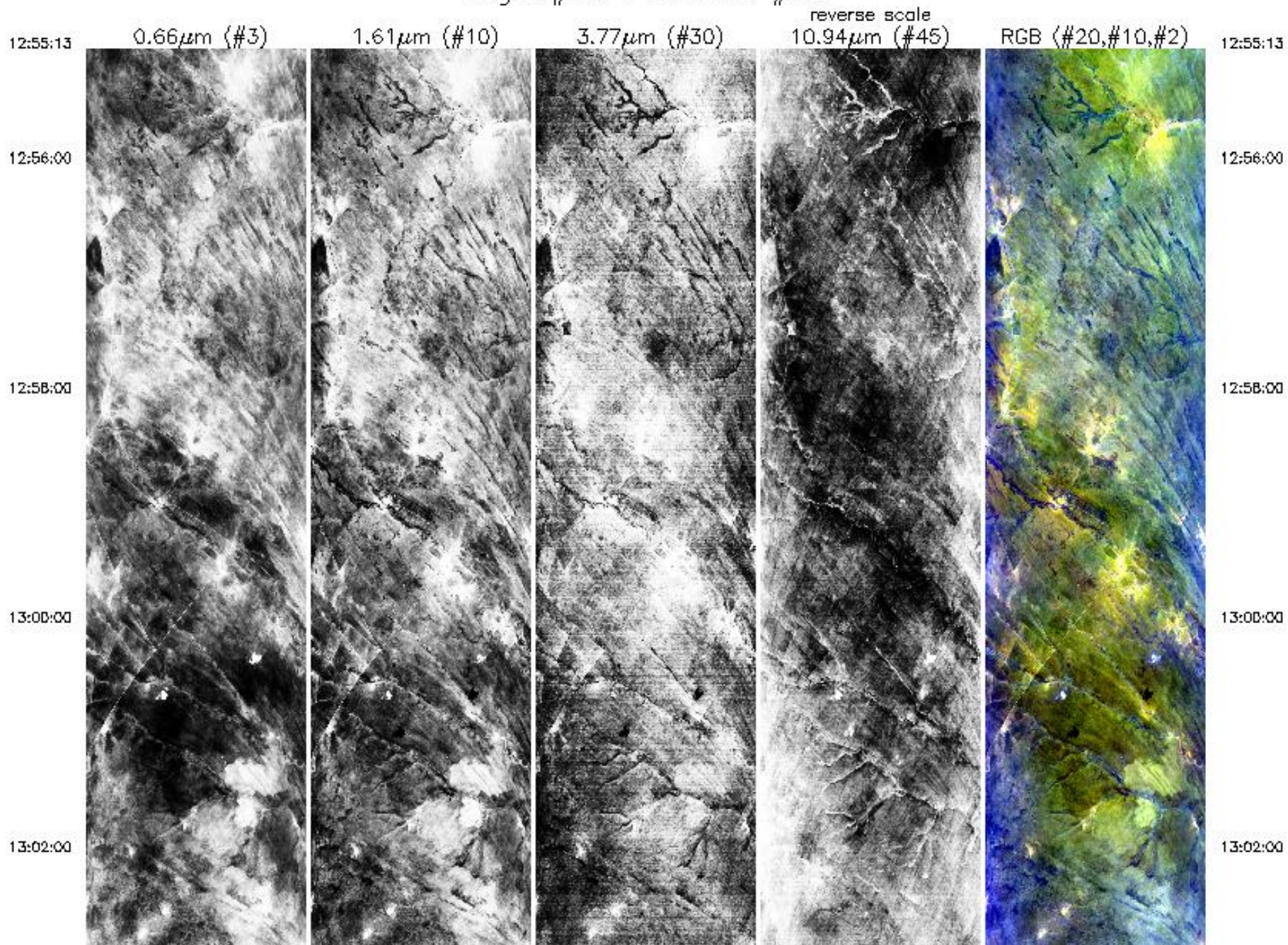
RGB (#20, #10, #2)

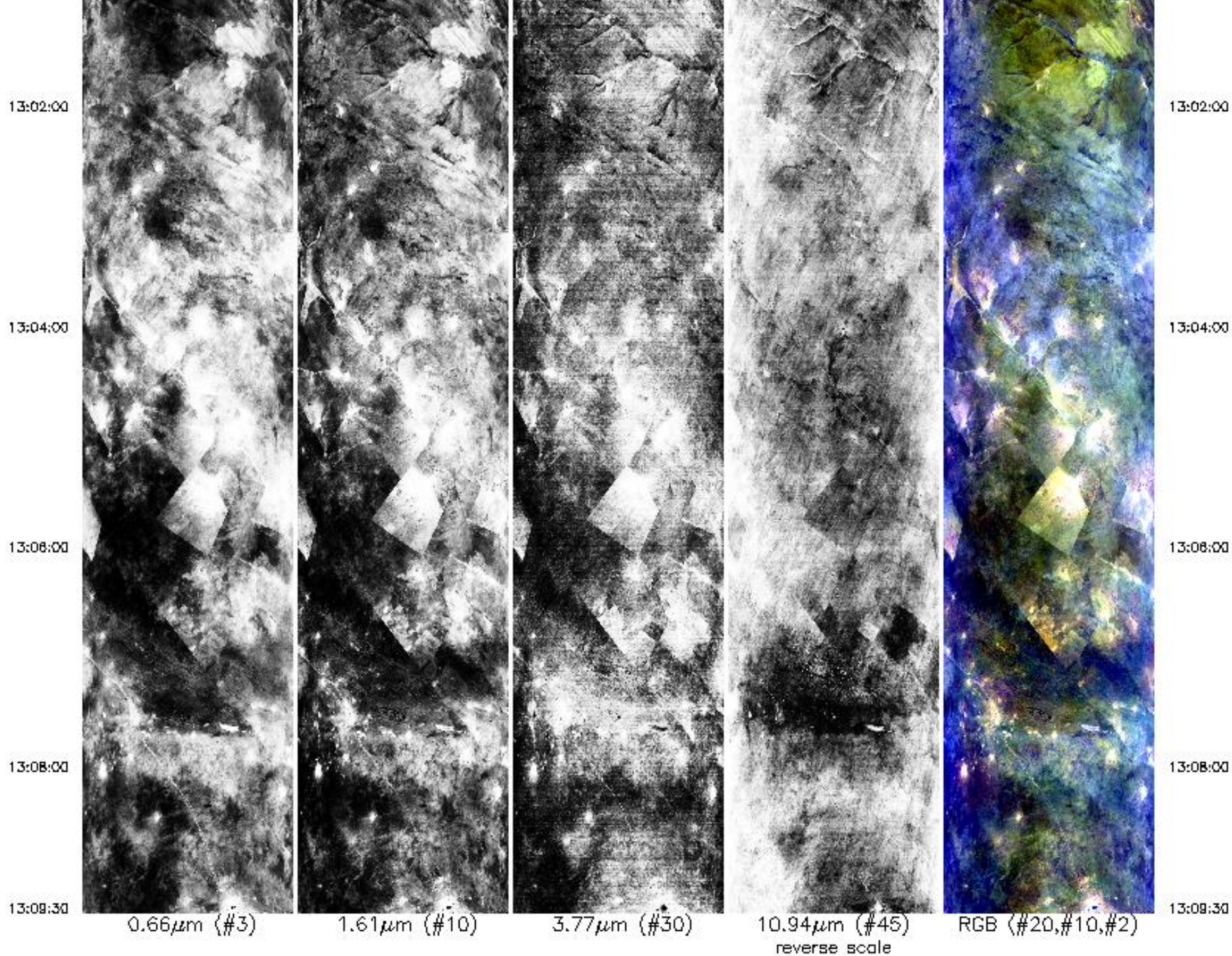
Aircraft Heading = 133.8°

Solar Zenith = 23.7°

GPS Altitude = 20053. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #16





Aircraft Heading = 136.3°
Solar Zenith = 28.2°
GPS Altitude = 20117. m (MSL)

0.66 μm (#3)1.61 μm (#10)3.77 μm (#30)10.94 μm (#45)
reverse scale

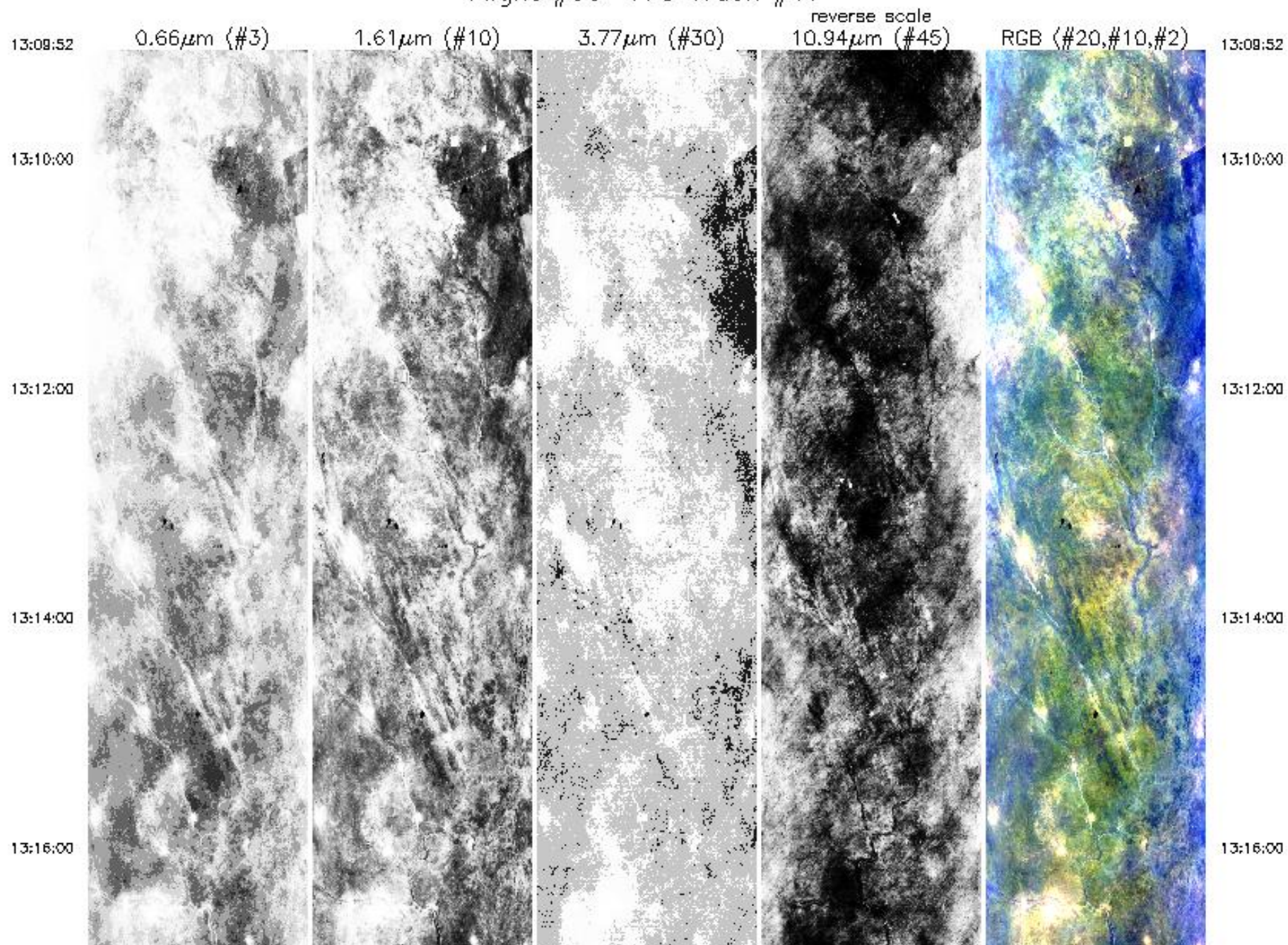
RGB (#20,#10,#2)

Aircraft Heading = 136.3°

Solar Zenith = 28.2°

GPS Altitude = 20117. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #17



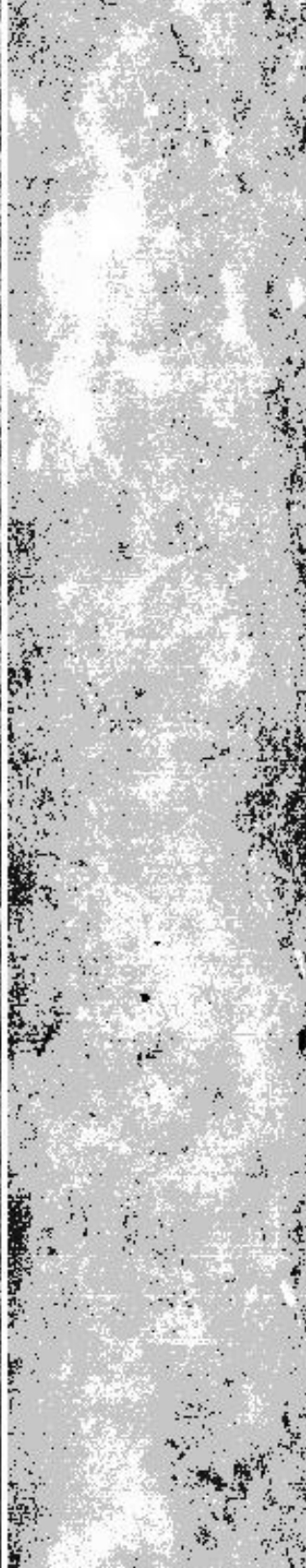
13:16:00



13:18:00



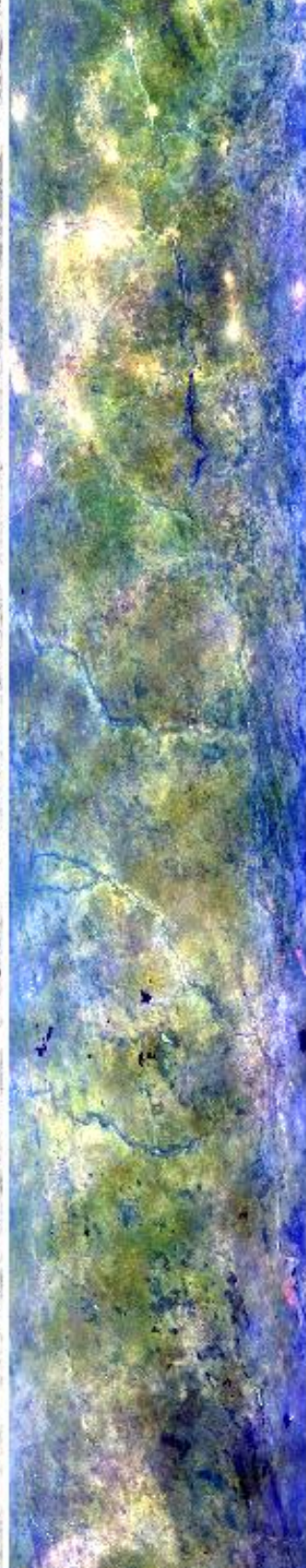
13:20:00



13:22:00



13:24:00



13:16:00

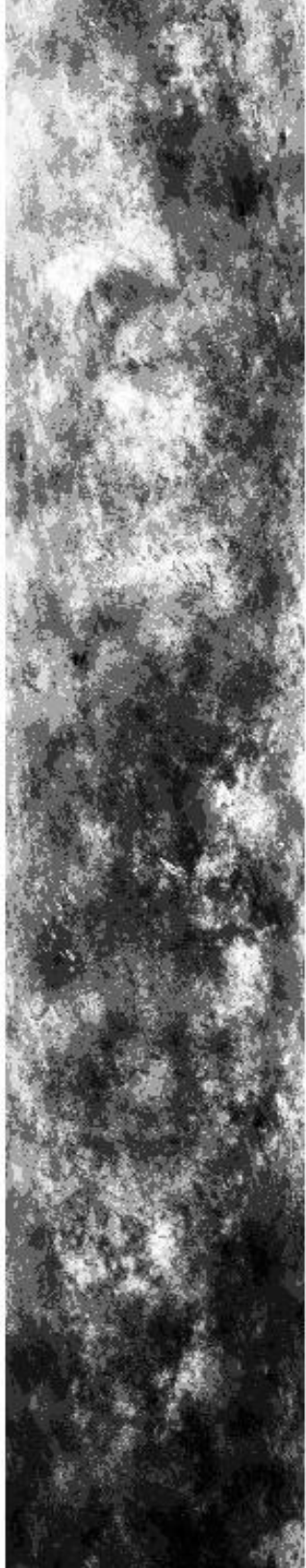
13:18:00

13:20:00

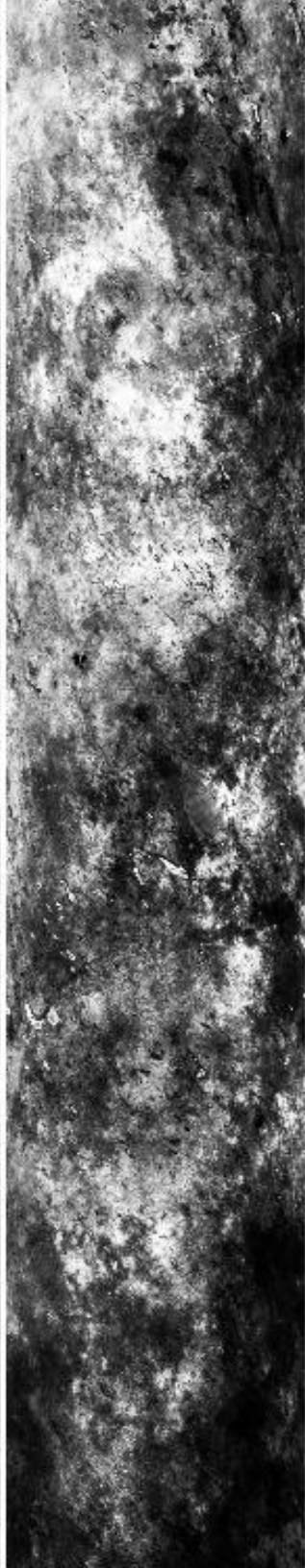
13:22:00

13:24:00

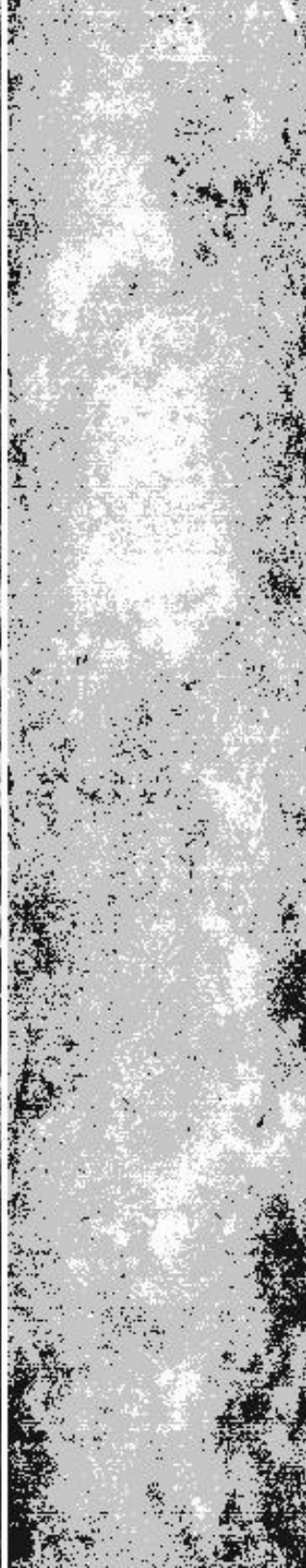
13:24:00



13:26:00



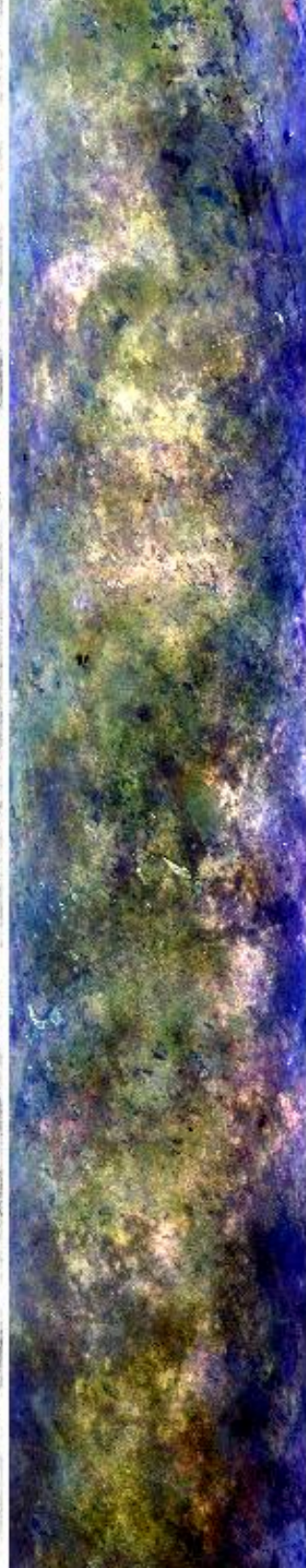
13:28:00



13:30:00



13:32:00



13:24:00

13:26:00

13:28:00

13:30:00

13:32:00

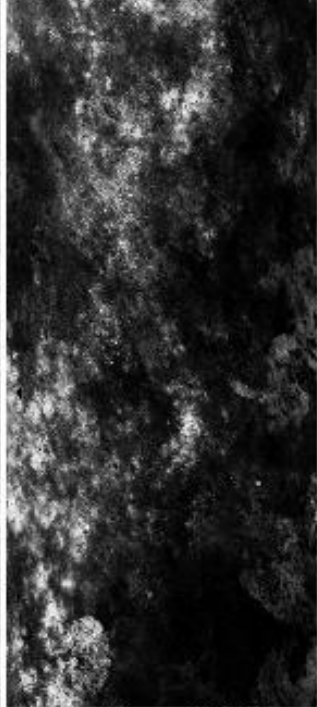
13:32:00

13:34:00

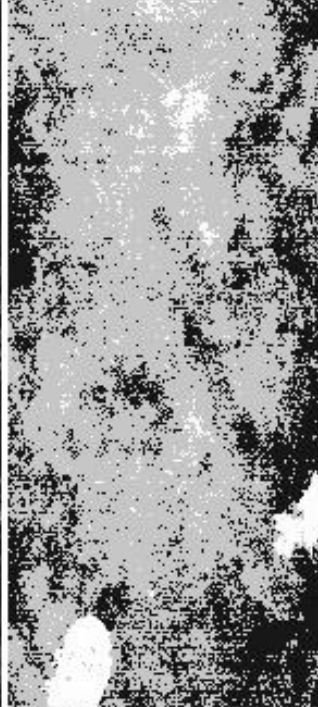
13:36:38



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20, #10, #2)

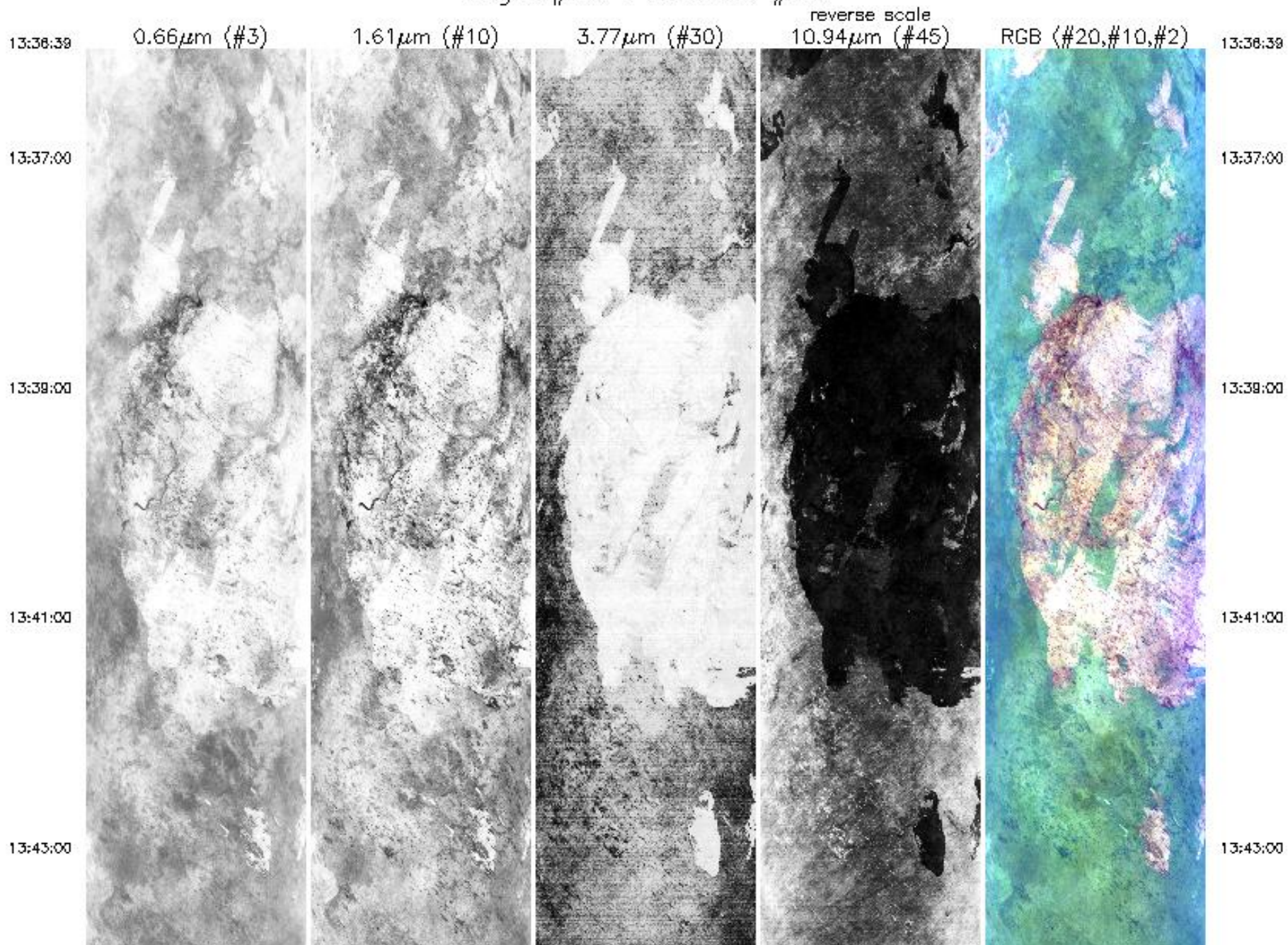
13:32:00

13:34:00

13:36:38

Aircraft Heading = 112.4°
Solar Zenith = 31.0°
GPS Altitude = 20183. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #18



13:43:00



13:45:00



13:47:00



13:49:00



13:51:00



13:43:00



13:45:00



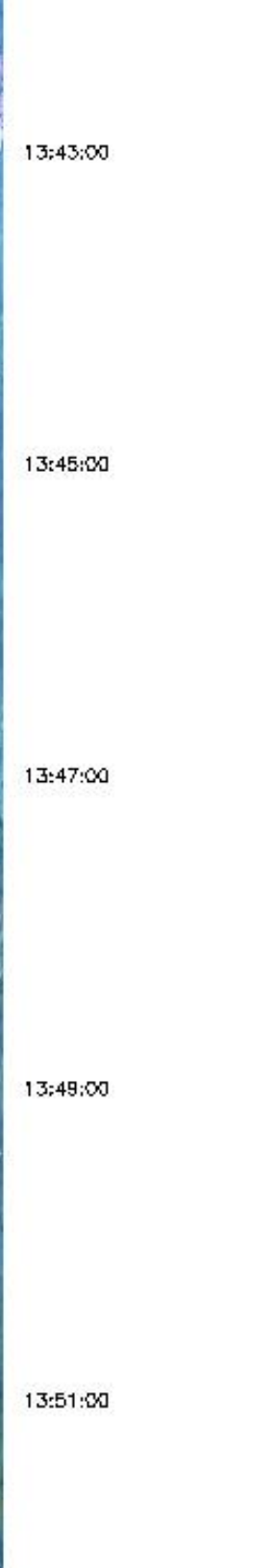
13:47:00



13:49:00



13:51:00



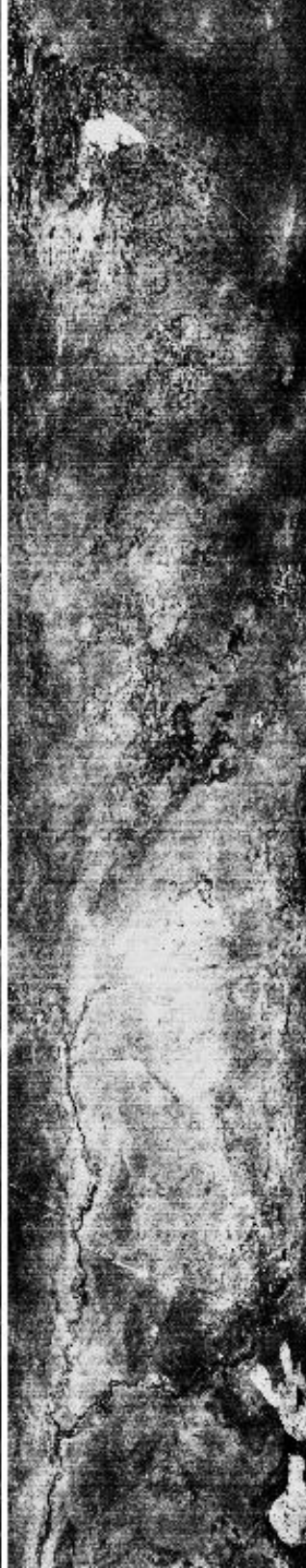
13:51:00



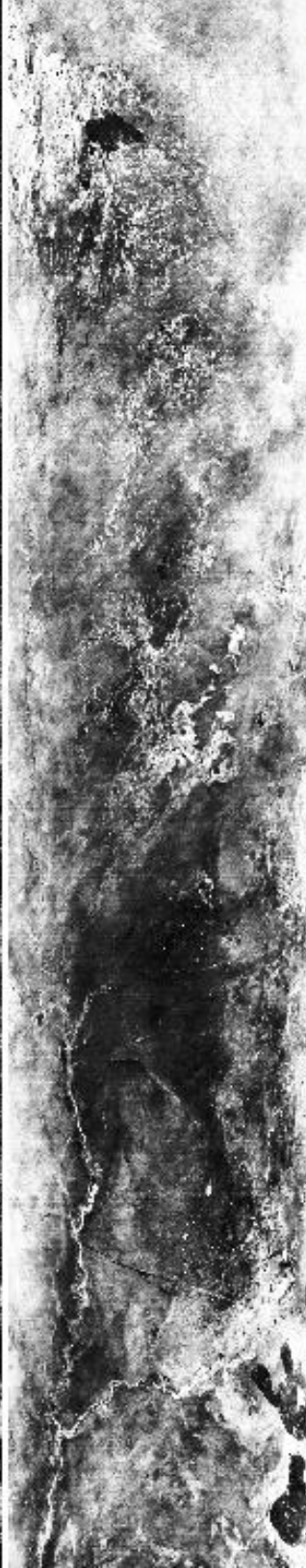
13:53:00



13:55:00



13:57:00



13:59:00



13:51:00

13:53:00

13:55:00

13:57:00

13:59:00

13:59:00

14:01:00

14:03:28



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)

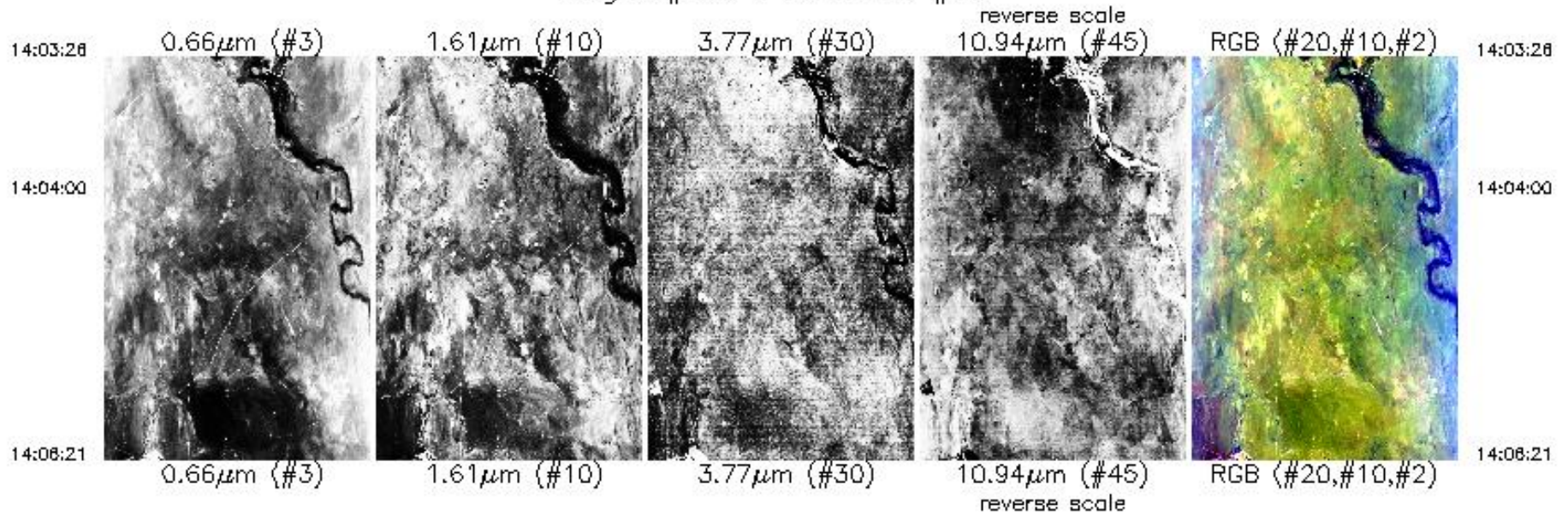
13:59:00

14:01:00

14:03:28

Aircraft Heading = 105.0°
Solar Zenith = 35.5°
GPS Altitude = 20242. m (MSL)

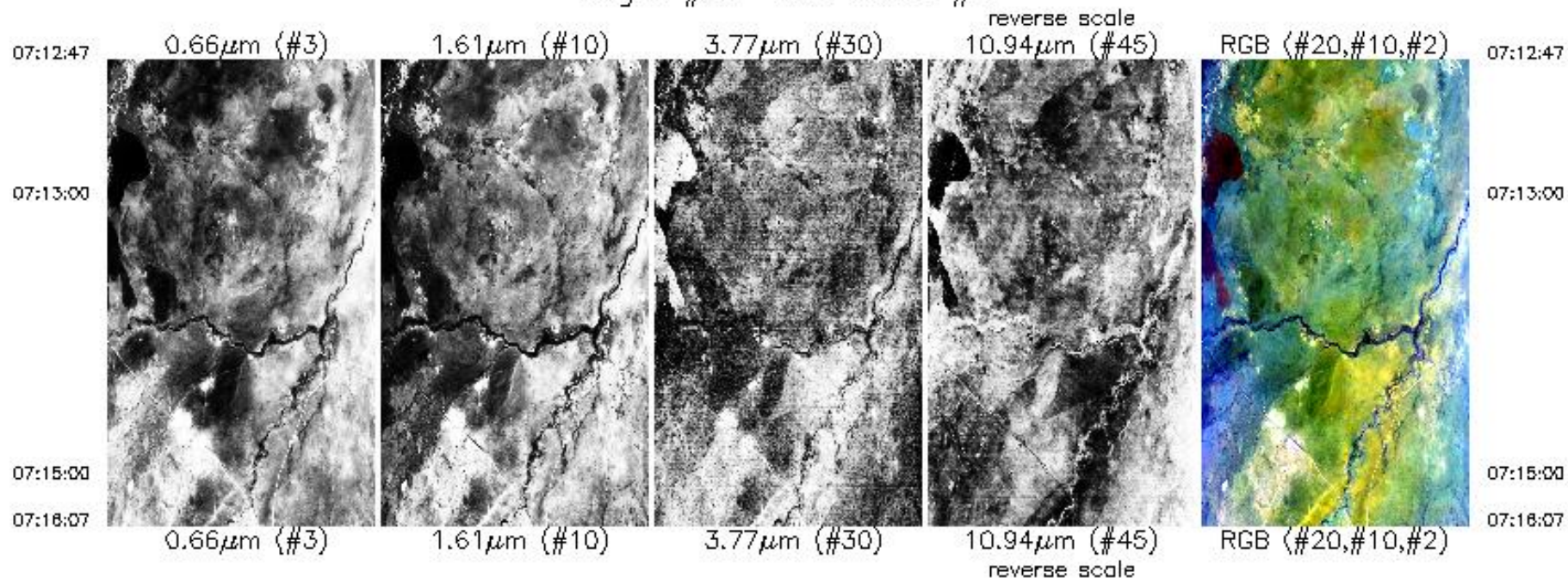
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #19



Aircraft Heading = 101.9°
Solar Zenith = 40.5°
GPS Altitude = 19322. m (MSL)

Flight #00-175 Browse Imagery

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #1

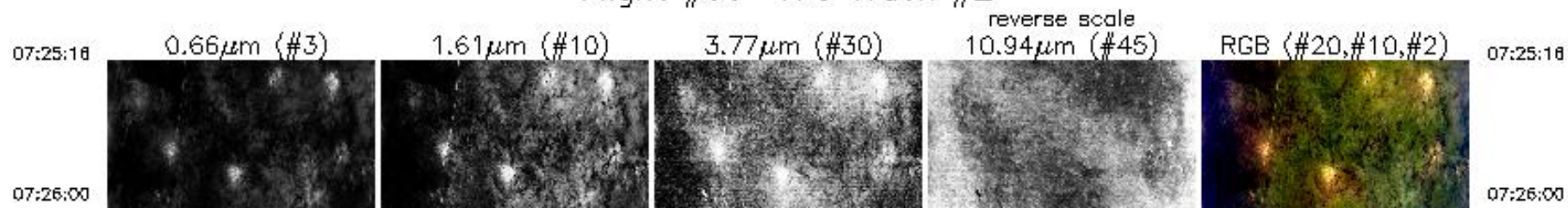


Aircraft Heading = 262.6°

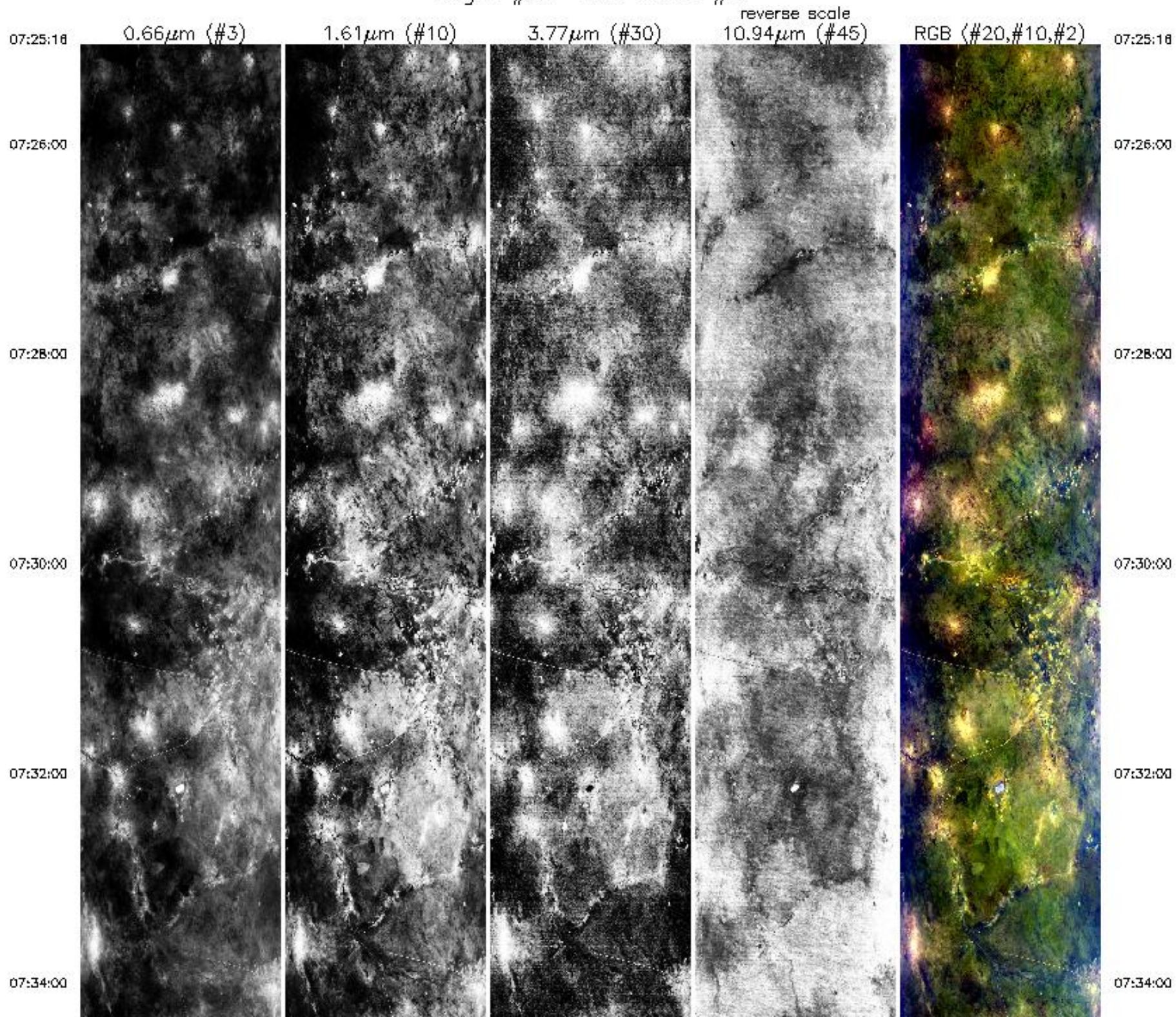
Solar Zenith = 74.8°

GPS Altitude = 18733. m (MSL)

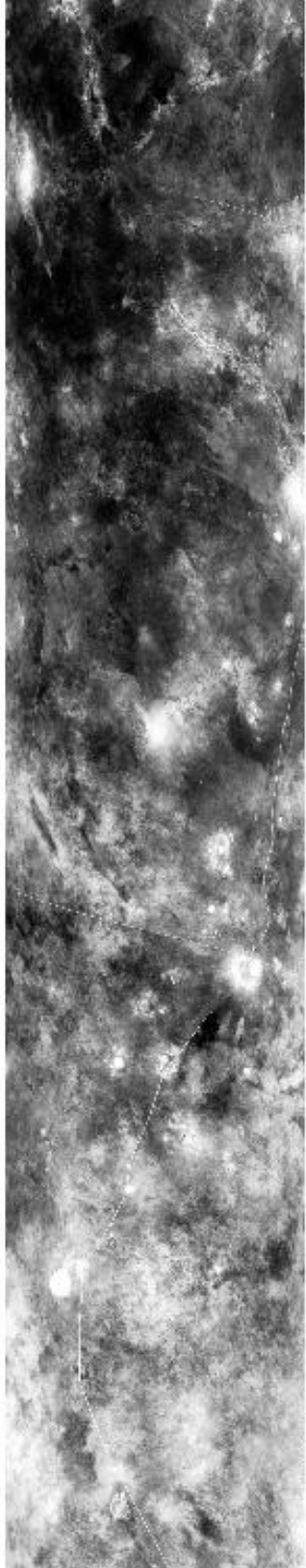
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #2



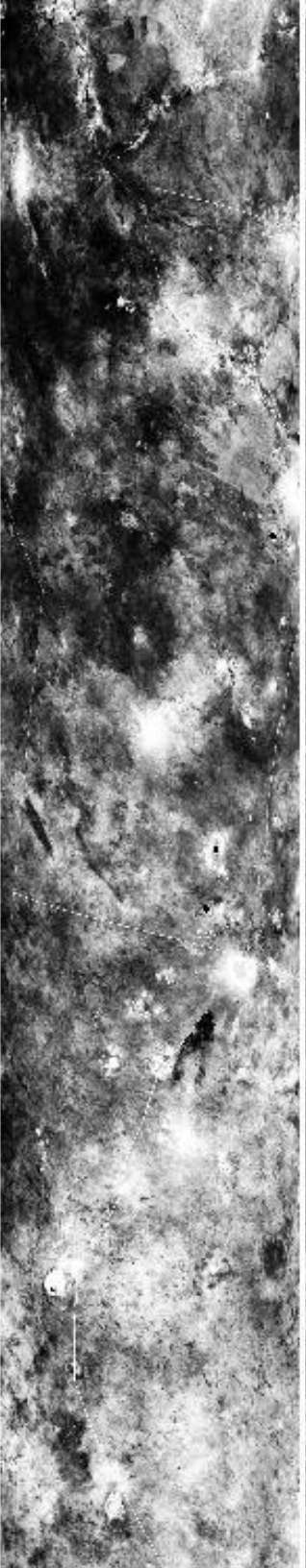
Botswana
Flight #00-175 Track #2



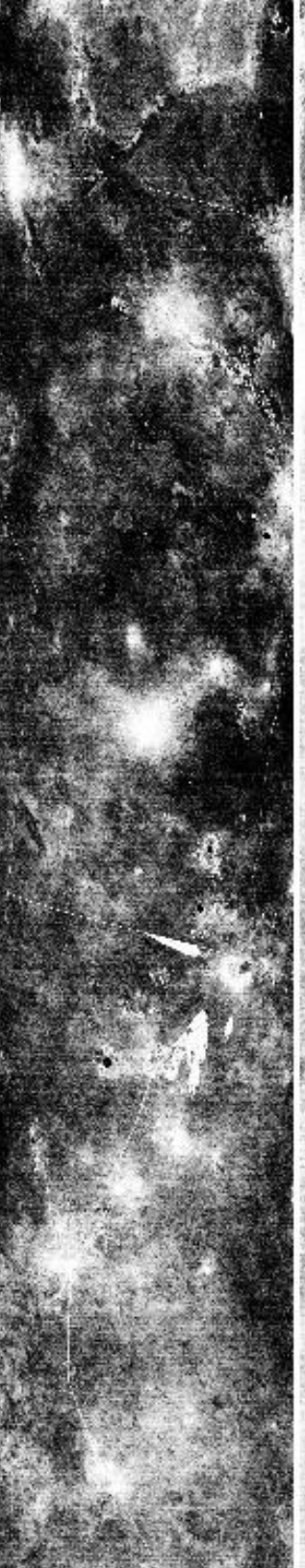
07:34:00



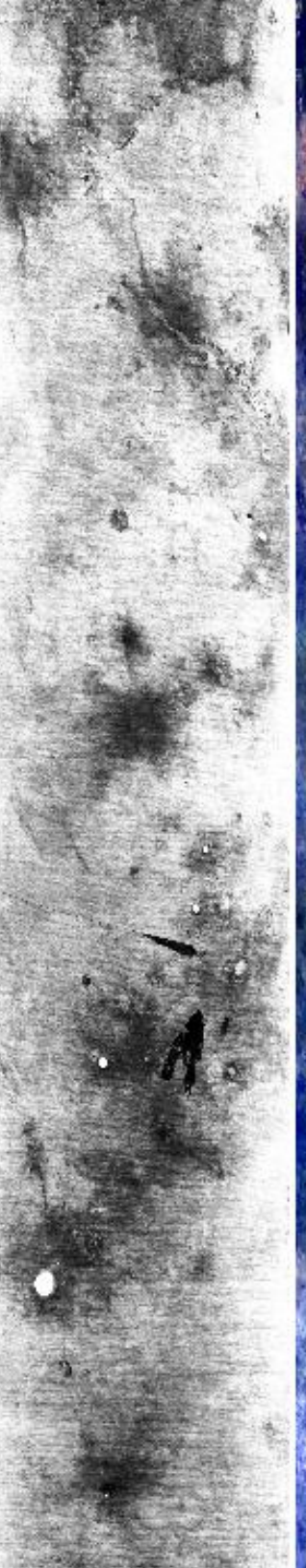
07:36:00



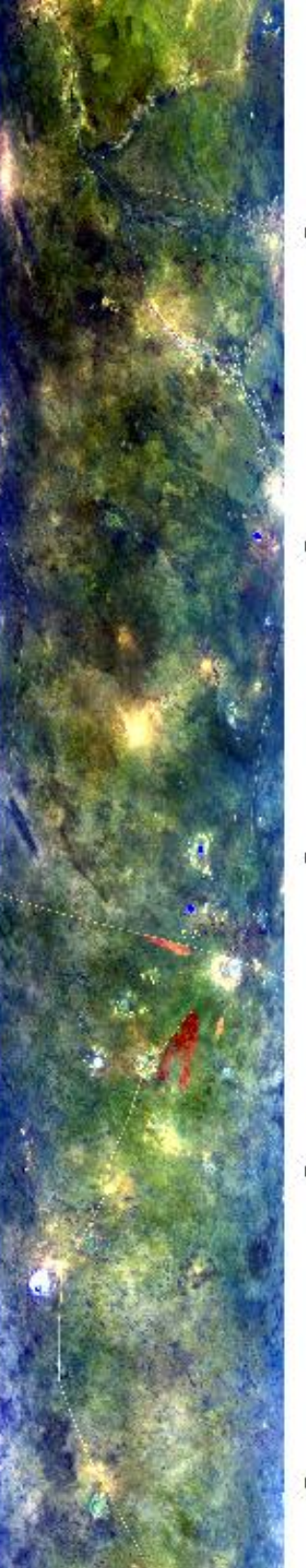
07:38:00



07:40:00



07:42:00



07:34:00

07:36:00

07:38:00

07:40:00

07:42:00

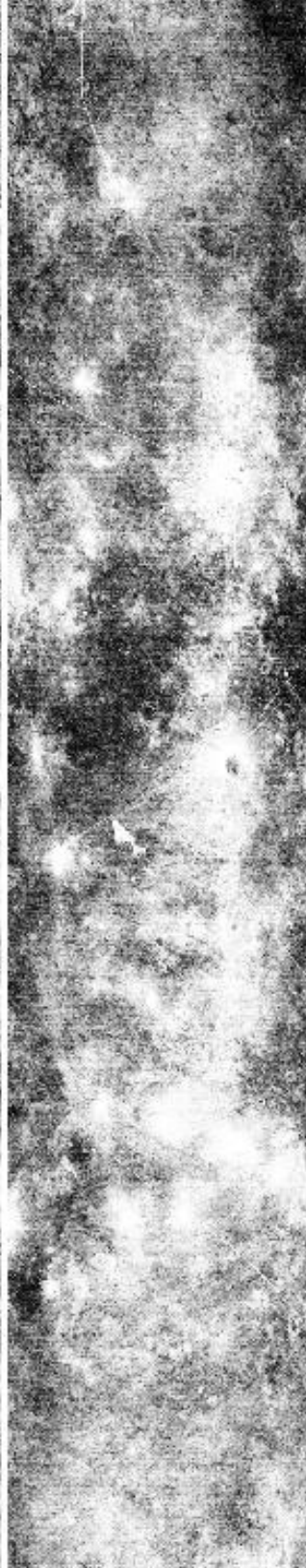
07:42:00

07:44:00

07:46:00

07:48:00

07:50:00



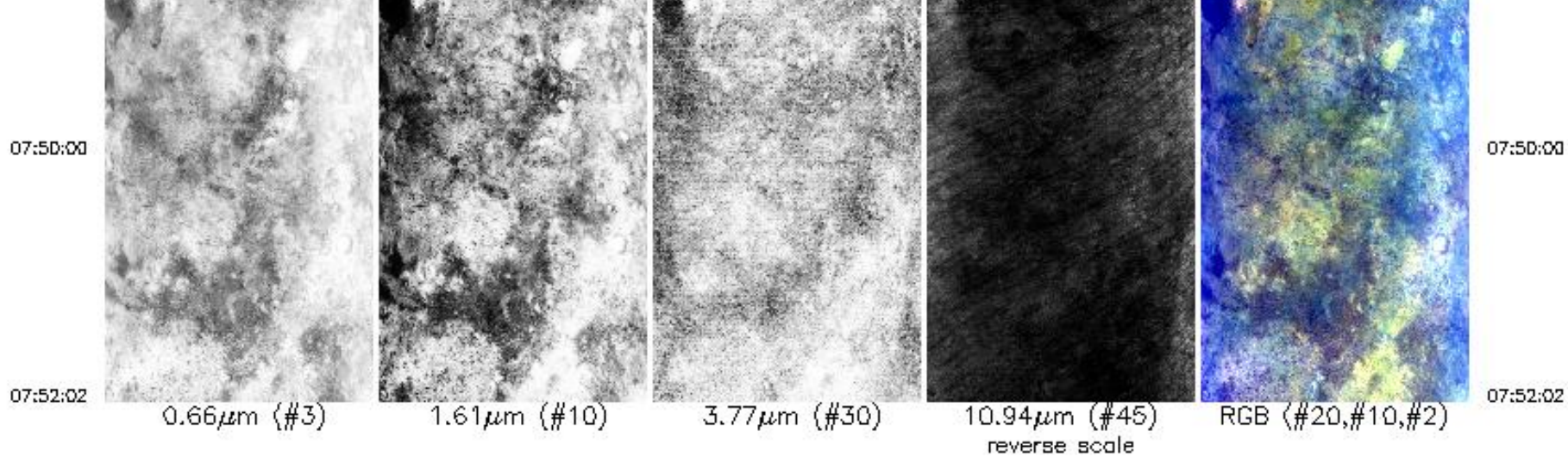
07:42:00

07:44:00

07:46:00

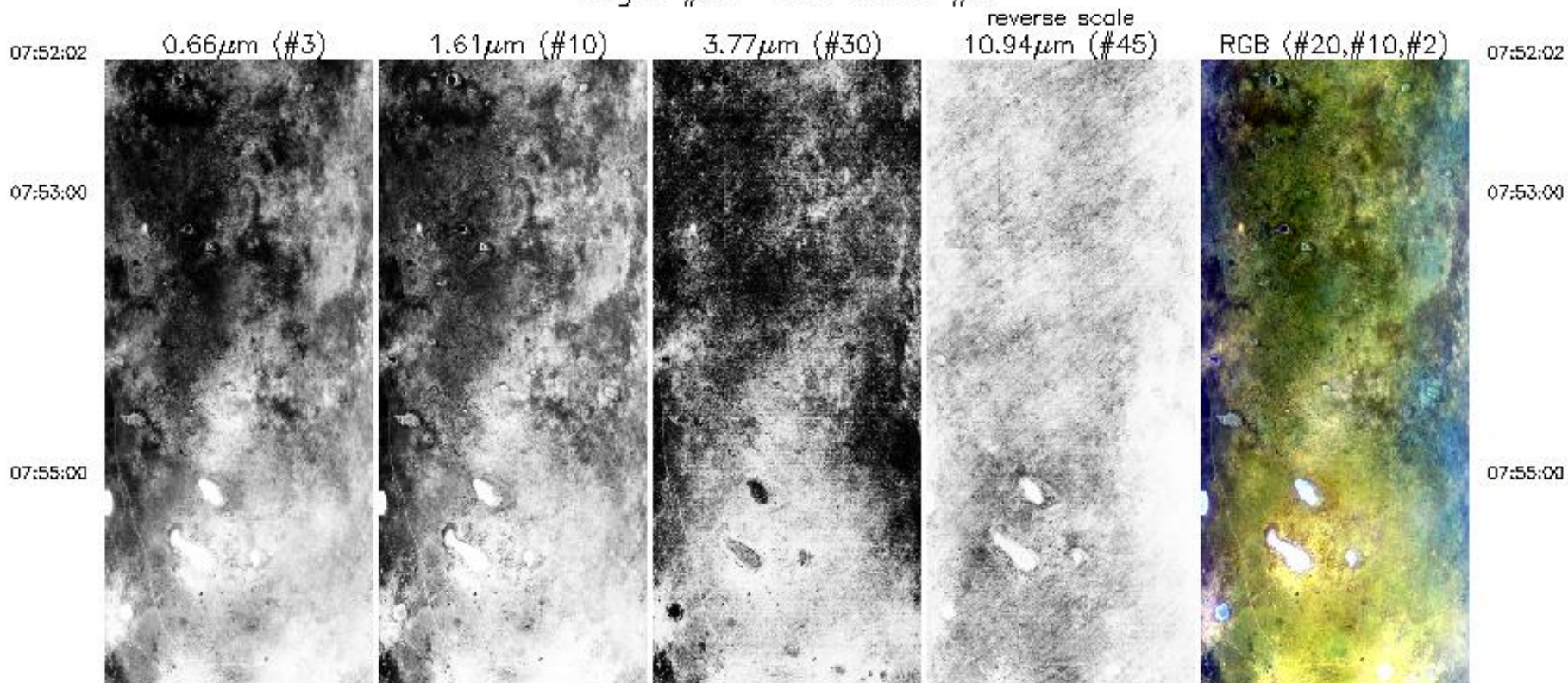
07:48:00

07:50:00

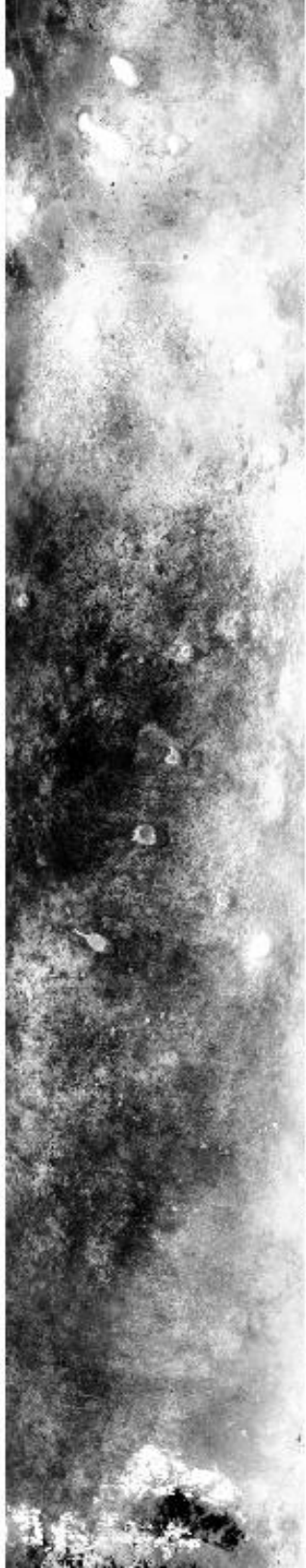


Aircraft Heading = 261.7°
 Solar Zenith = 72.1°
 GPS Altitude = 19450. m (MSL)

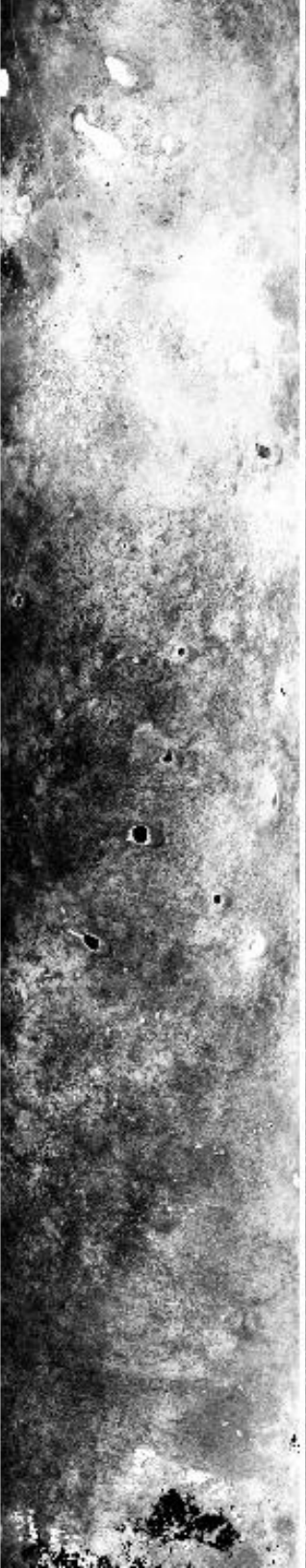
MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Namibia
 Flight #00-175 Track #3



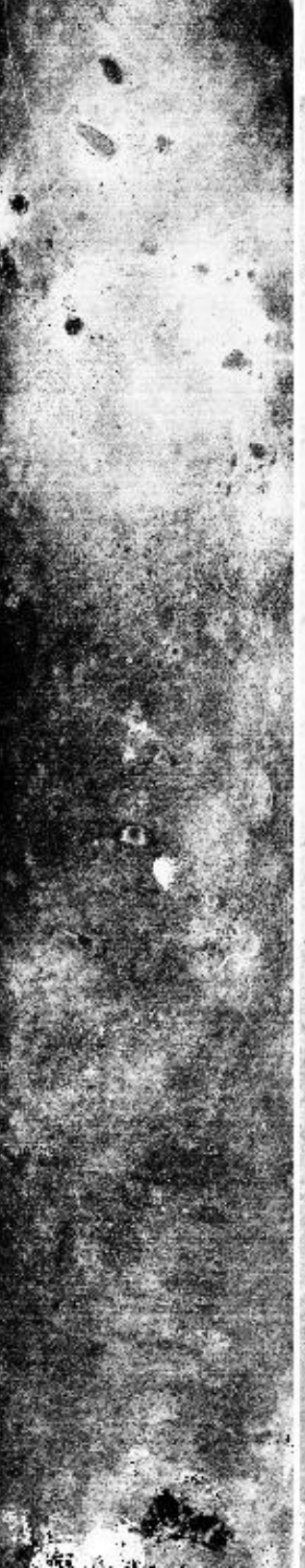
07:55:00



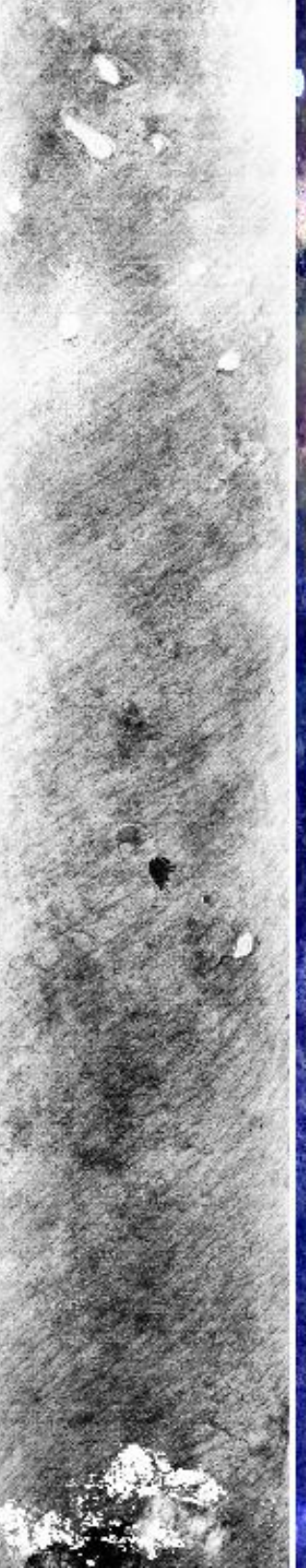
07:57:00



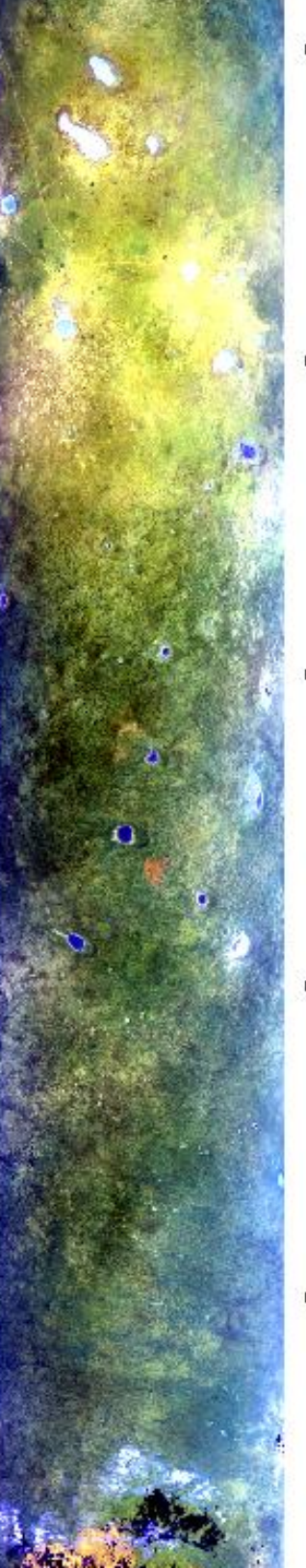
07:59:00



08:01:00



08:03:00



07:55:00

07:57:00

07:59:00

08:01:00

08:03:00

08:03:00



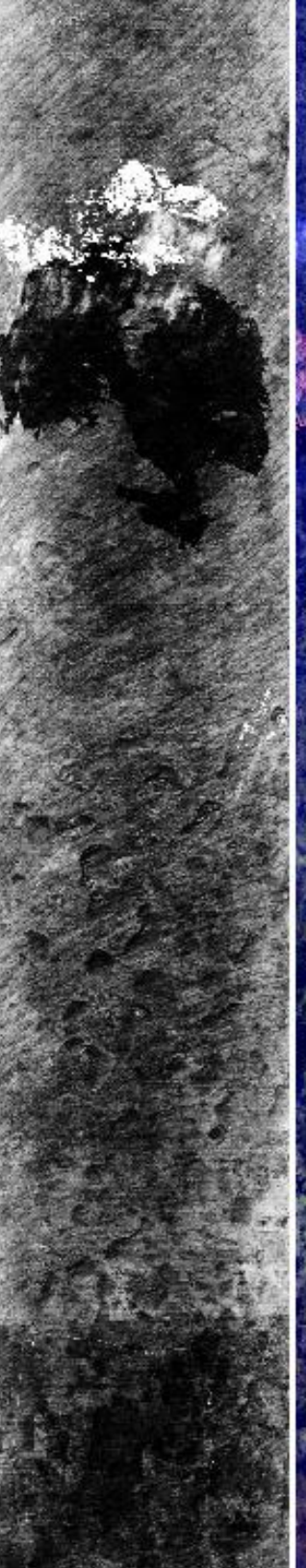
08:05:00



08:07:00



08:09:00



08:11:00



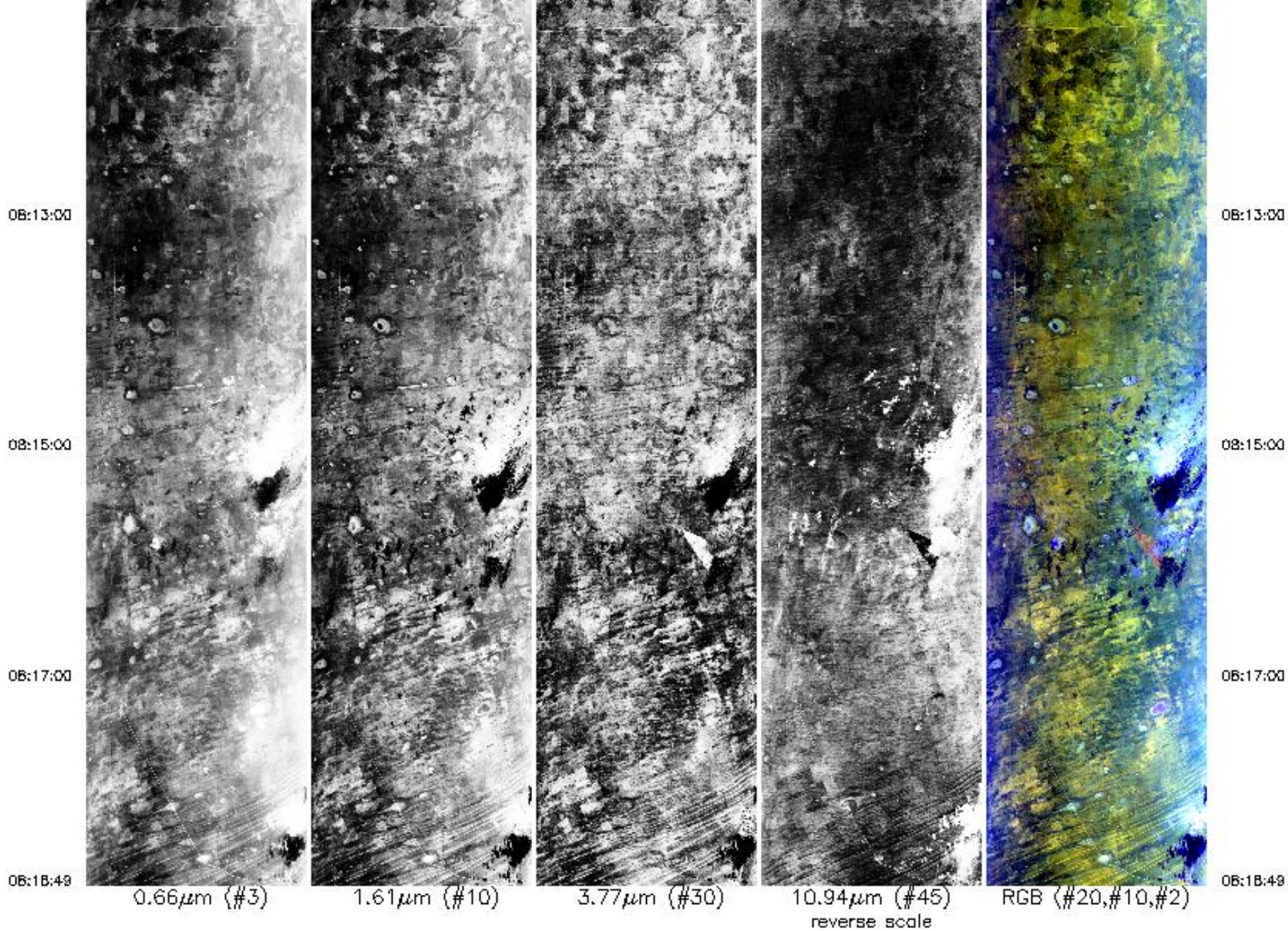
08:03:00

08:05:00

08:07:00

08:09:00

08:11:00



Aircraft Heading = 273.8°

Solar Zenith = 66.2°

GPS Altitude = 19720. m (MSL)

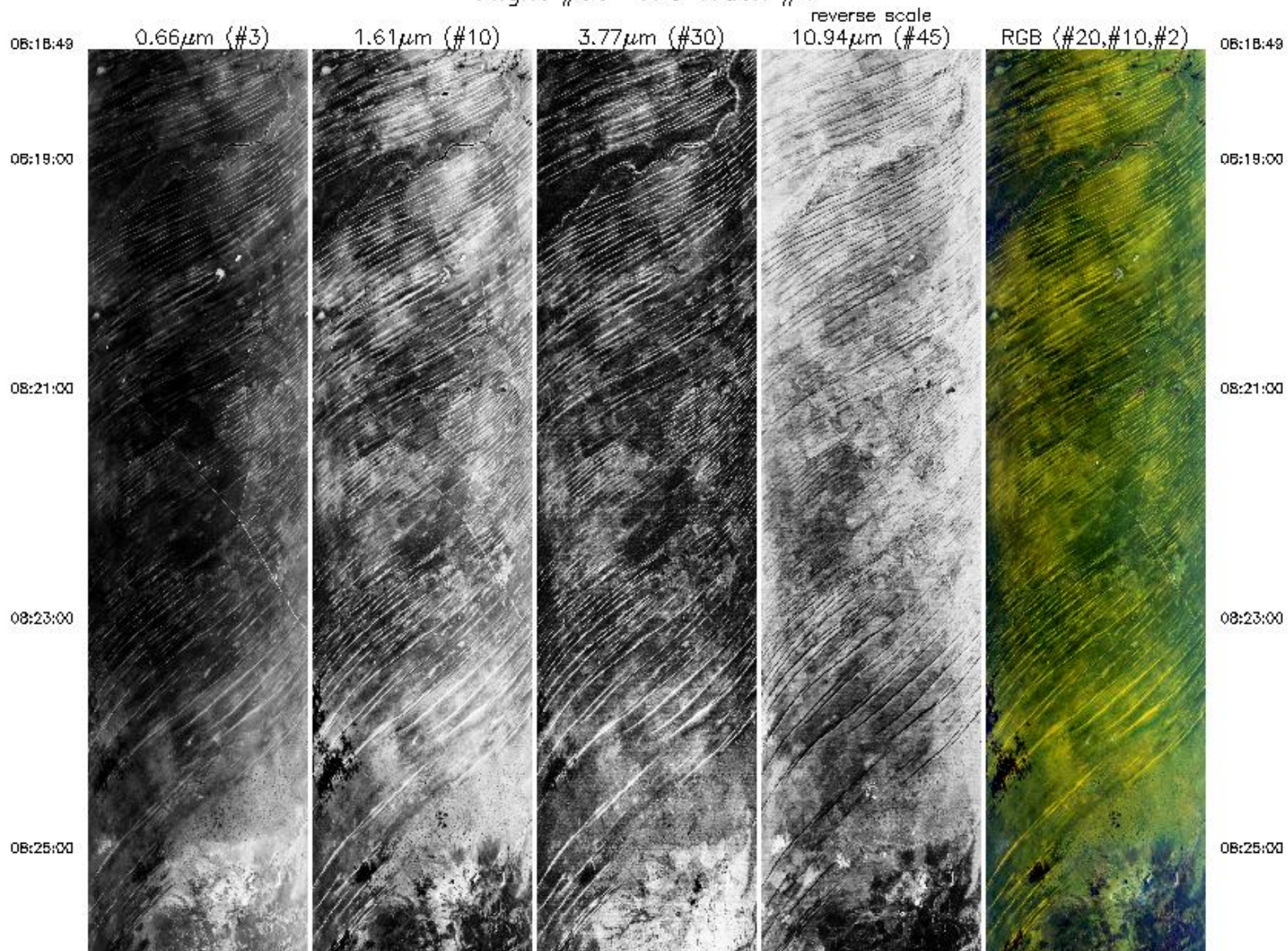
MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 13 Sep 2000

Namibia

Flight #00-175 Track #4

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #4



08:25:00



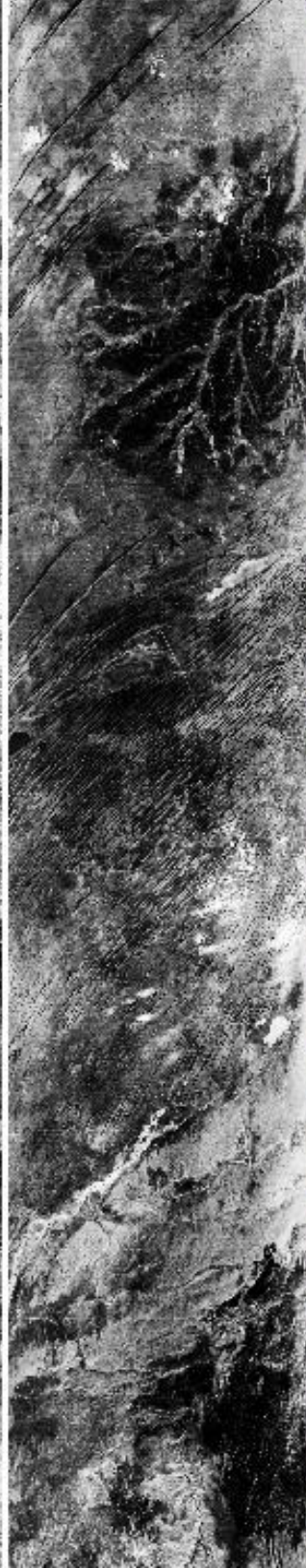
08:27:00



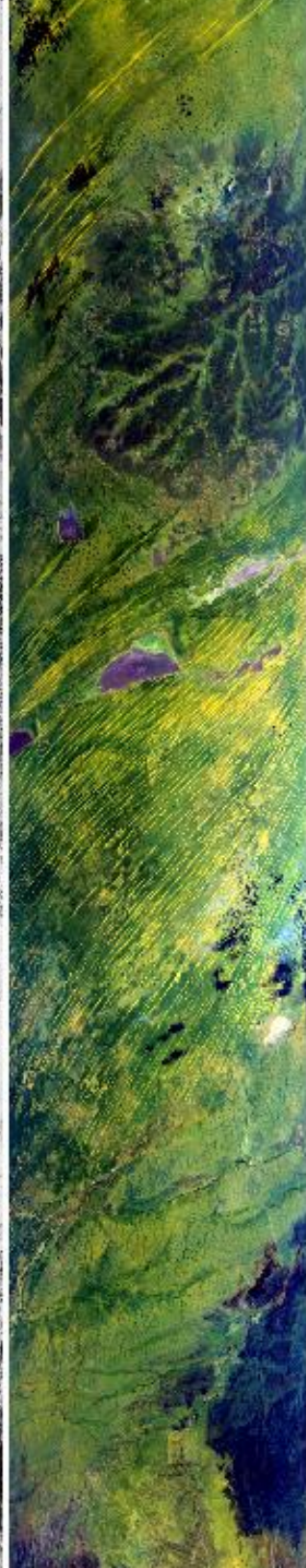
08:29:00



08:31:00



08:33:00



08:25:00

08:27:00

08:29:00

08:31:00

08:33:00

08:33:00



08:35:00



08:37:00



08:39:00



08:41:00



08:33:00

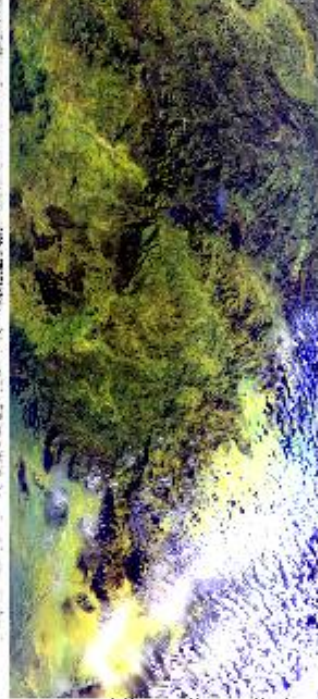
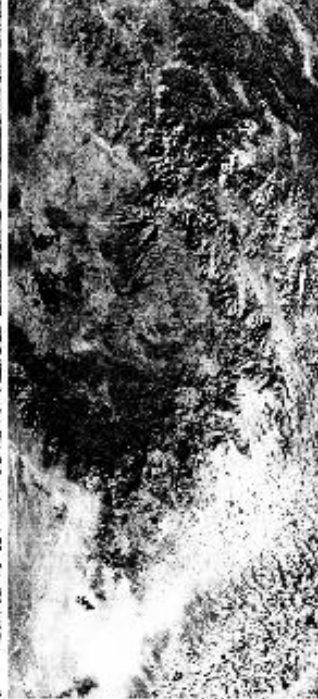
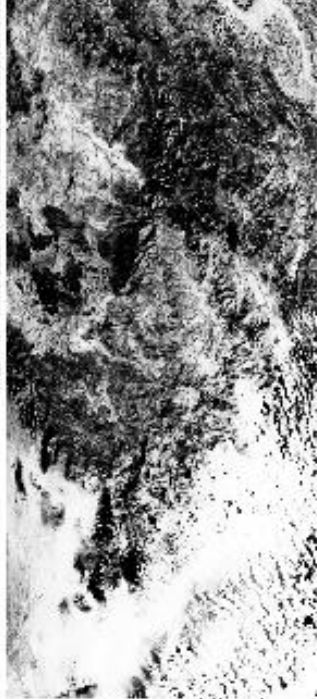
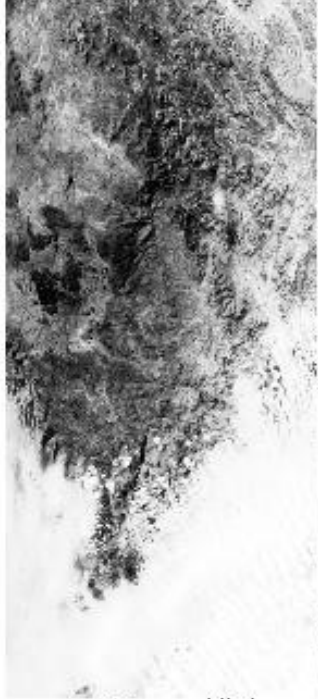
08:35:00

08:37:00

08:39:00

08:41:00

08:41:00



08:41:00

08:43:00

08:45:35

0.66µm (<#3)

1.61µm (<#10)

3.77µm (<#30)

10.94µm (<#45)
reverse scale

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

08:43:00

08:45:35

Aircraft Heading = 274.8°

Solar Zenith = 60.4°

GPS Altitude = 19766. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #5

08:45:38

0.66µm (<#3)

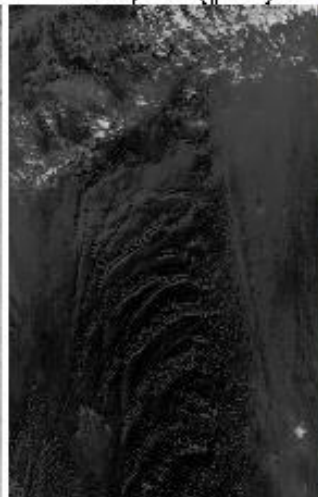
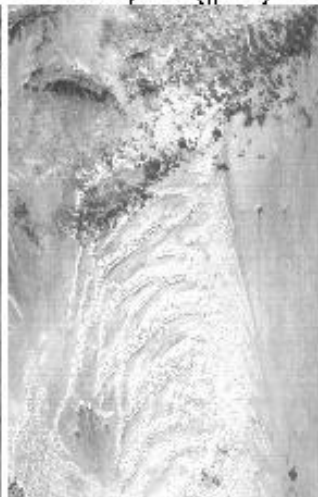
1.61µm (<#10)

3.77µm (<#30)

reverse scale
10.94µm (<#45)

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

08:45:38



08:46:00

08:48:00

08:46:00

08:48:00

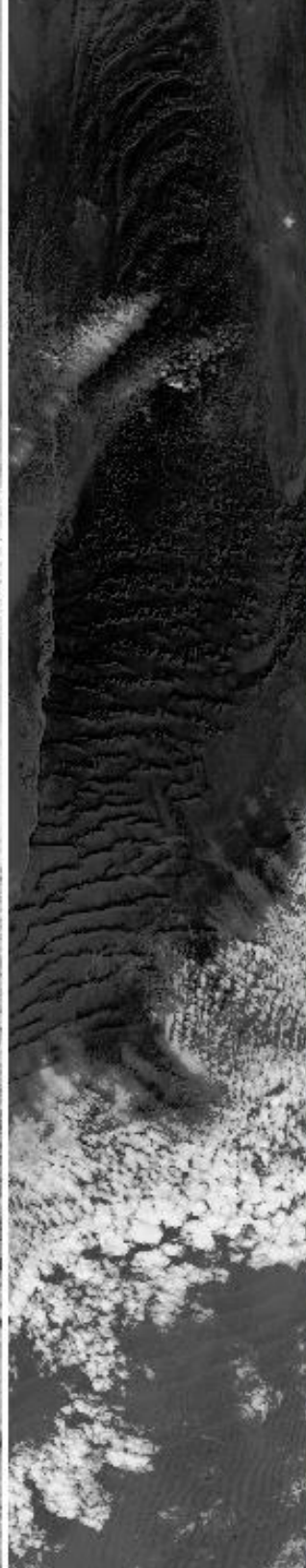
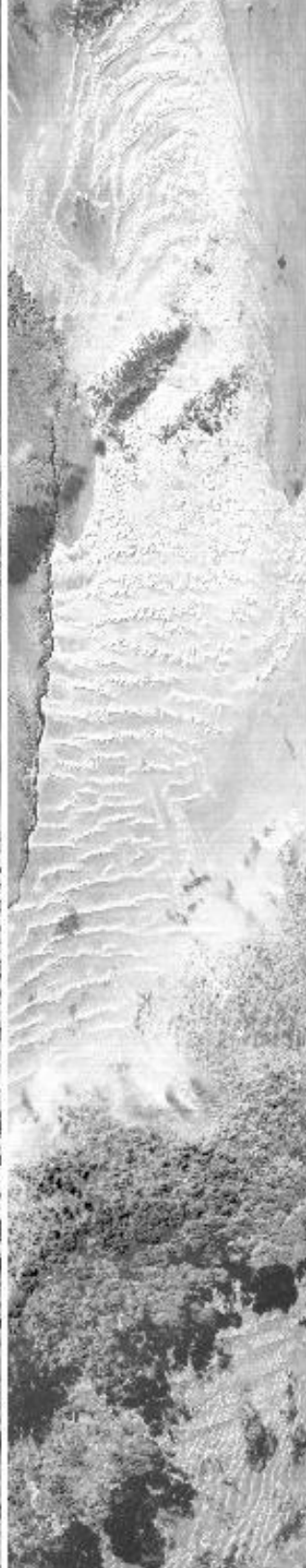
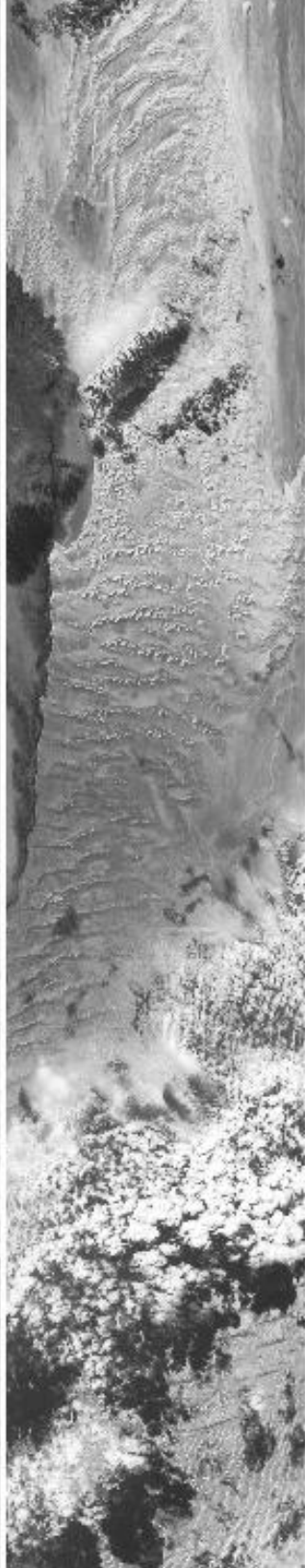
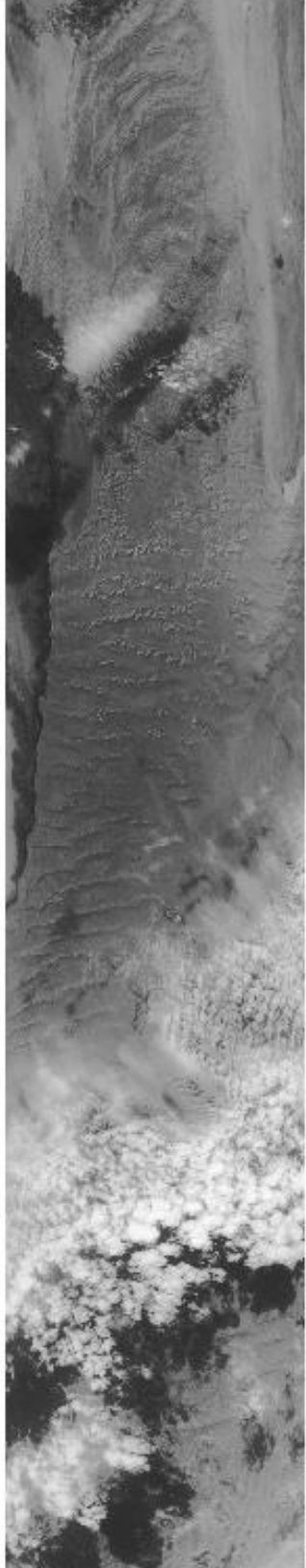
08:48:00

08:50:00

08:52:00

08:54:00

08:58:00



08:48:00

08:50:00

08:52:00

08:54:00

08:58:00

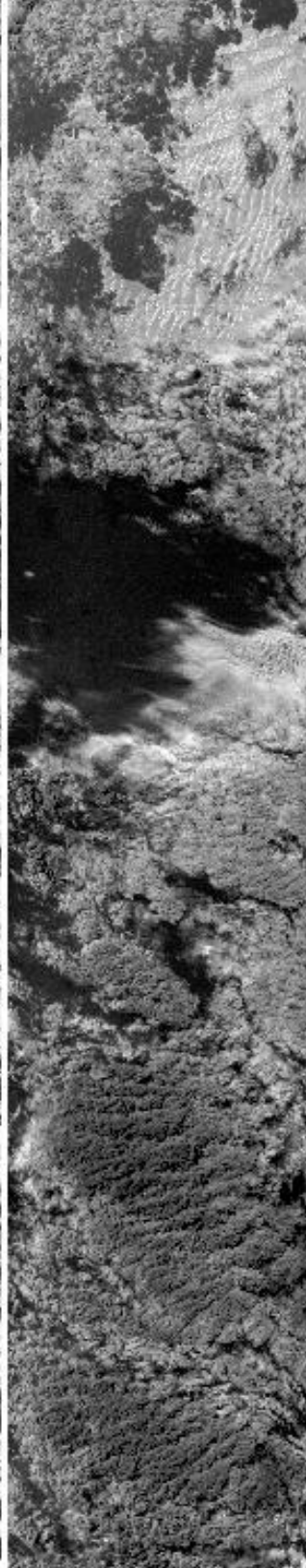
08:56:00



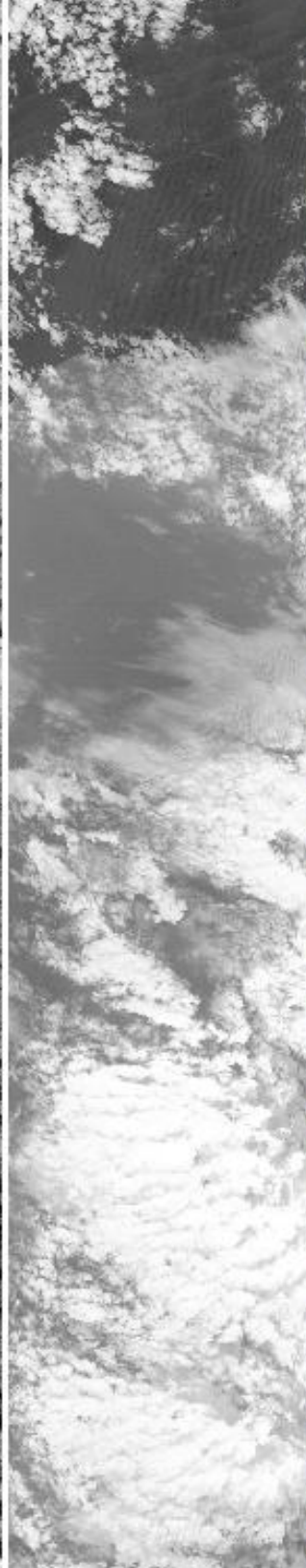
08:58:00



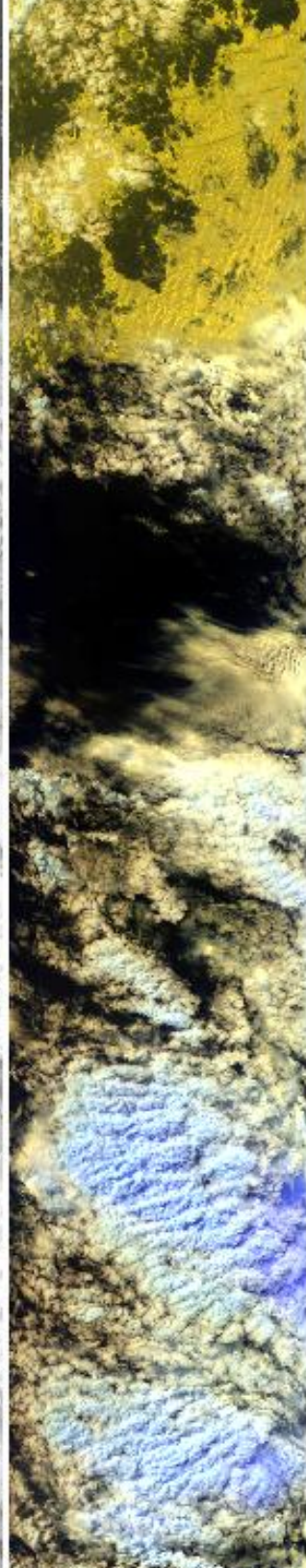
09:00:00



09:02:00



09:04:00



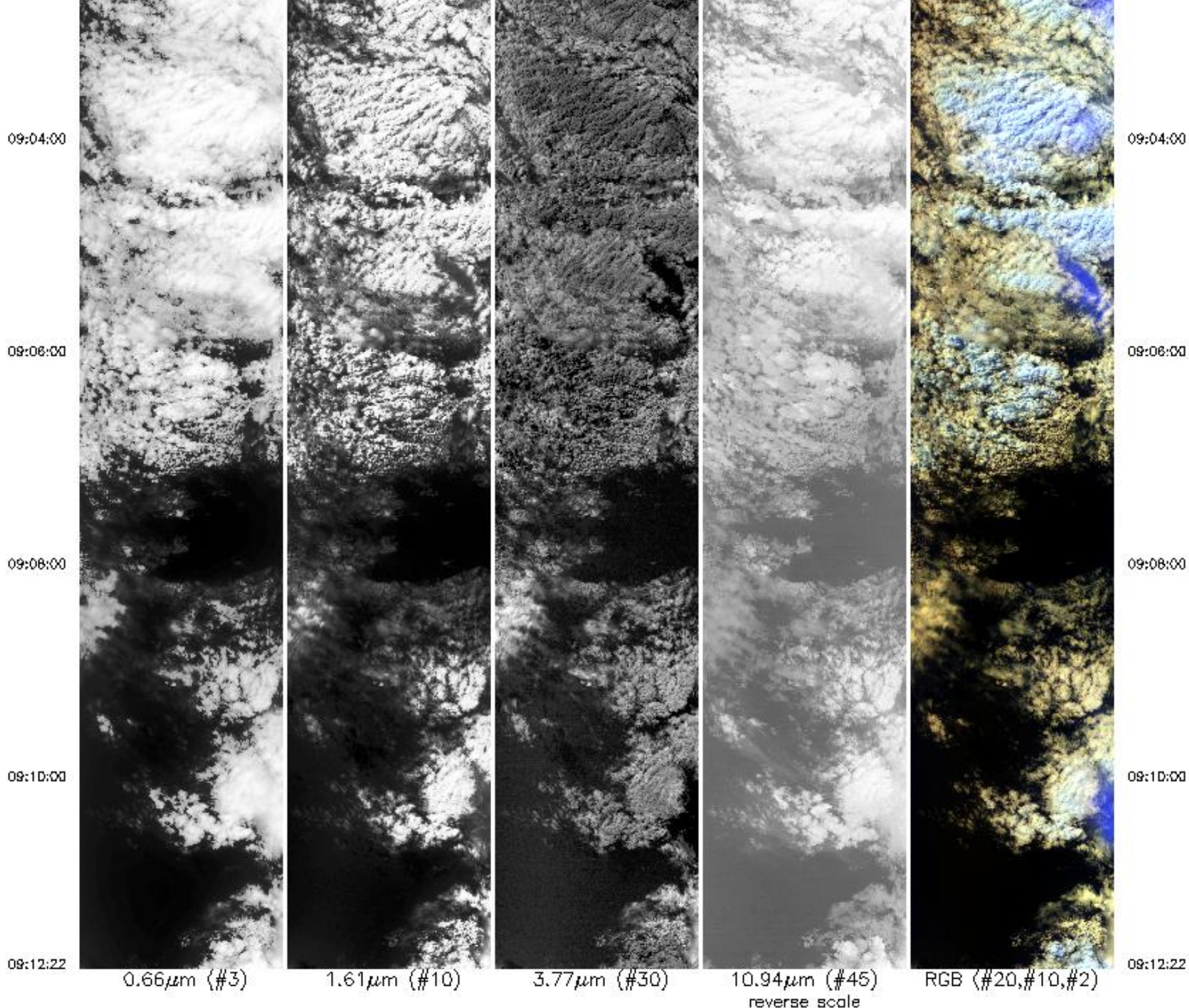
08:56:00

08:58:00

09:00:00

09:02:00

09:04:00



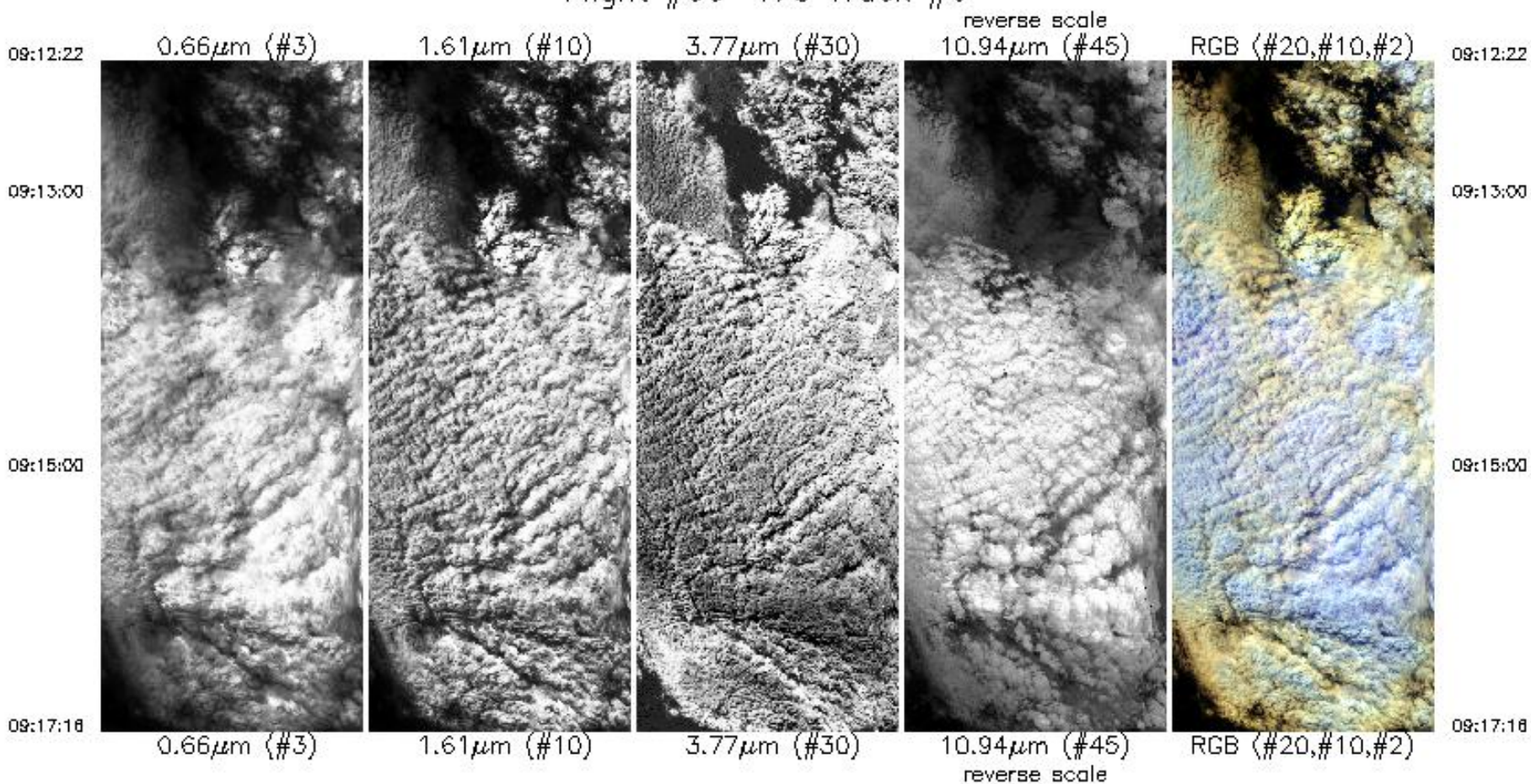
Aircraft Heading = 274.2°

Solar Zenith = 54.6°



Aircraft Heading = 274.2°
 Solar Zenith = 54.6°
 GPS Altitude = 19659. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Namibia
 Flight #00–175 Track #6



Aircraft Heading = 274.2°
 Solar Zenith = 48.9°
 GPS Altitude = 19642. m (MSL)

09:17:16



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

09:17:16

Aircraft Heading = 274.2°

Solar Zenith = 48.9°

GPS Altitude = 19642. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 13 Sep 2000

Namibia Coast

Flight #00-175 Track #7

09:20:48

0.66µm (#3)



1.61µm (#10)



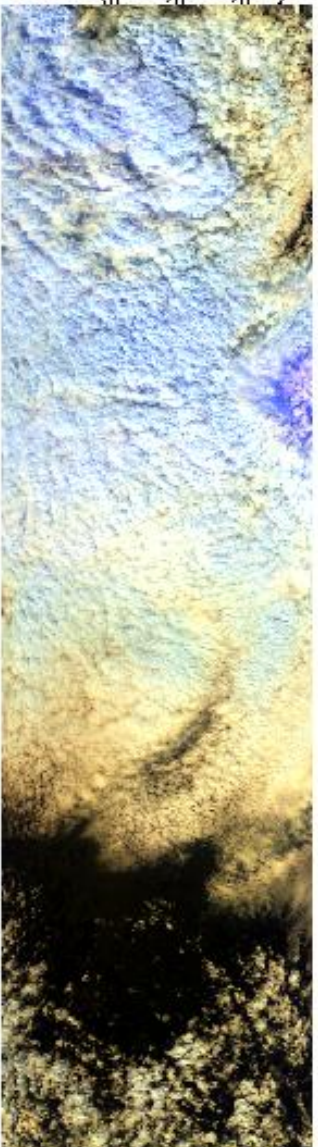
3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)



09:20:48

09:21:00

09:21:00

09:23:00

09:23:00

09:25:00

09:25:00

09:27:00

09:27:00

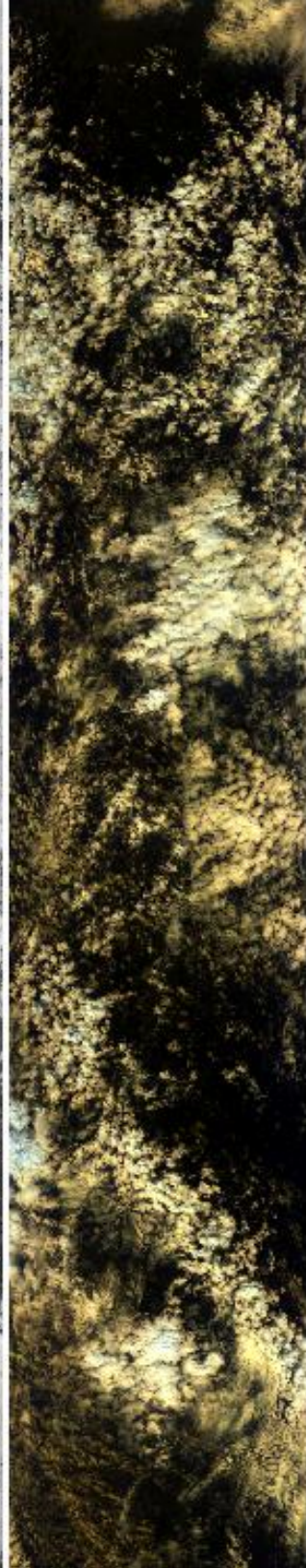
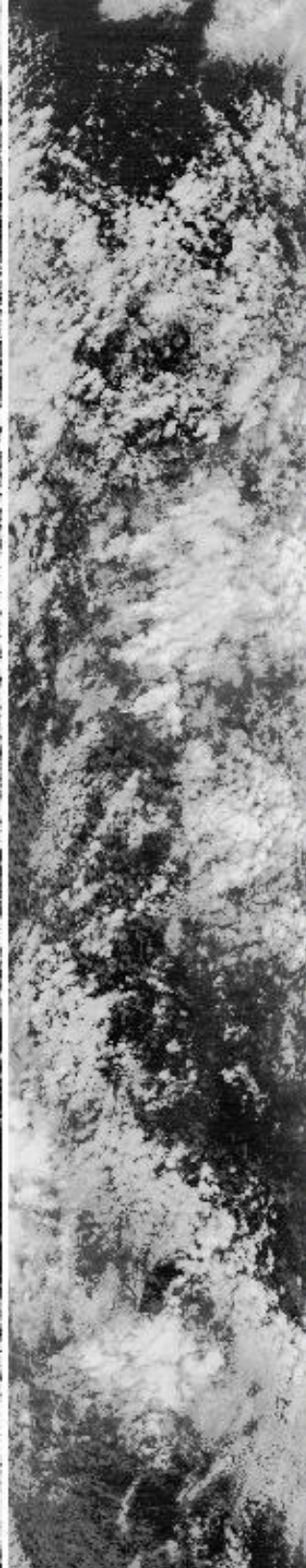
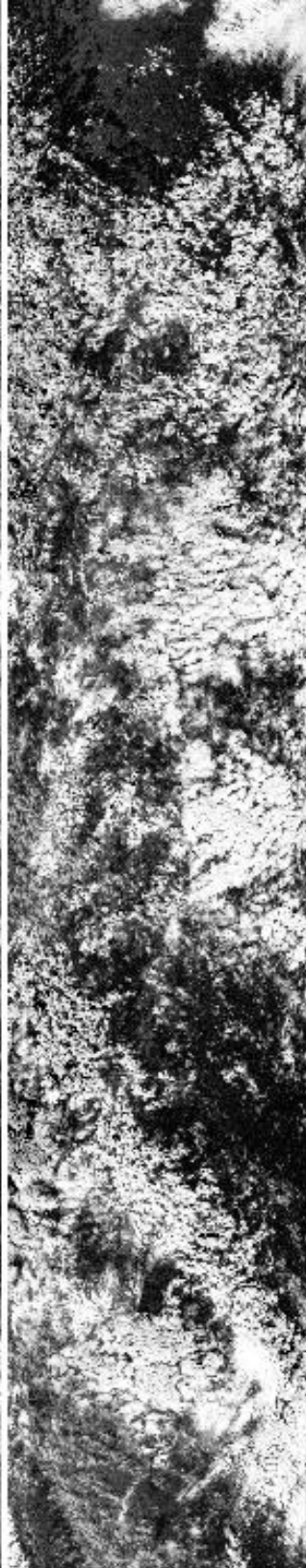
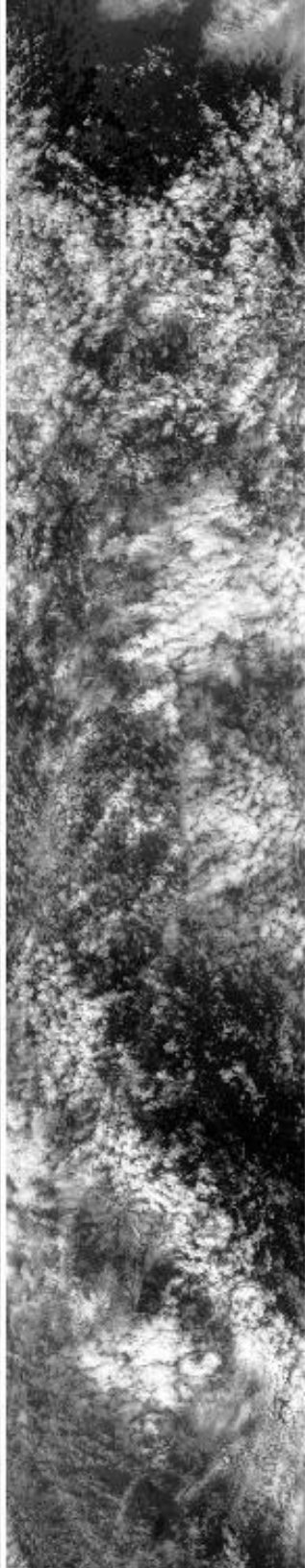
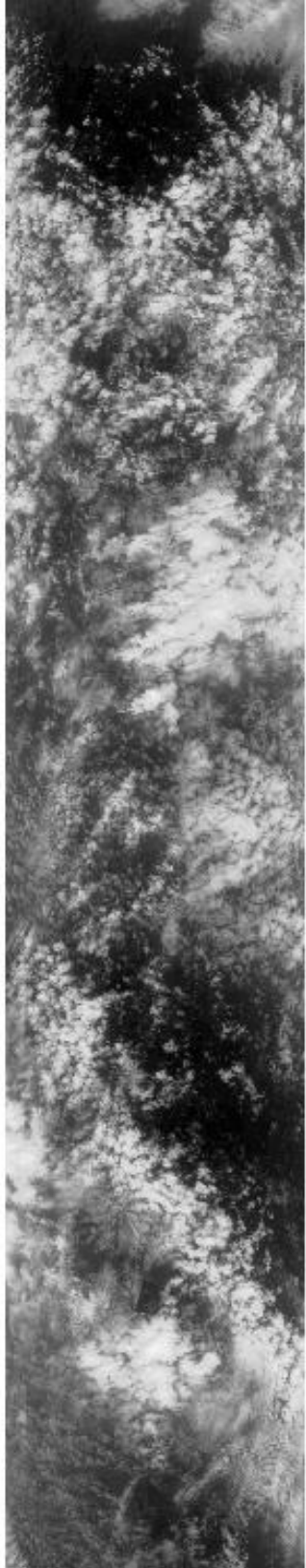
09:27:00

09:28:00

09:31:00

09:33:00

09:35:00



09:27:00

09:28:00

09:31:00

09:33:00

09:35:00

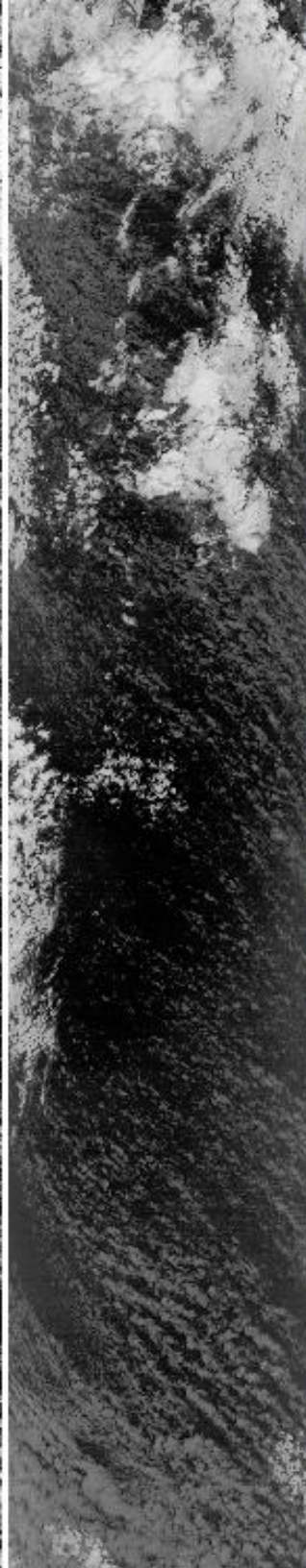
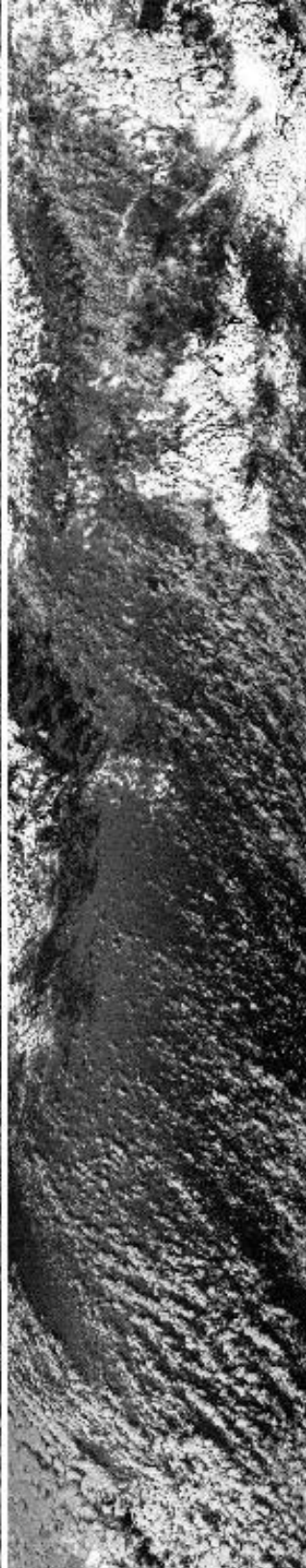
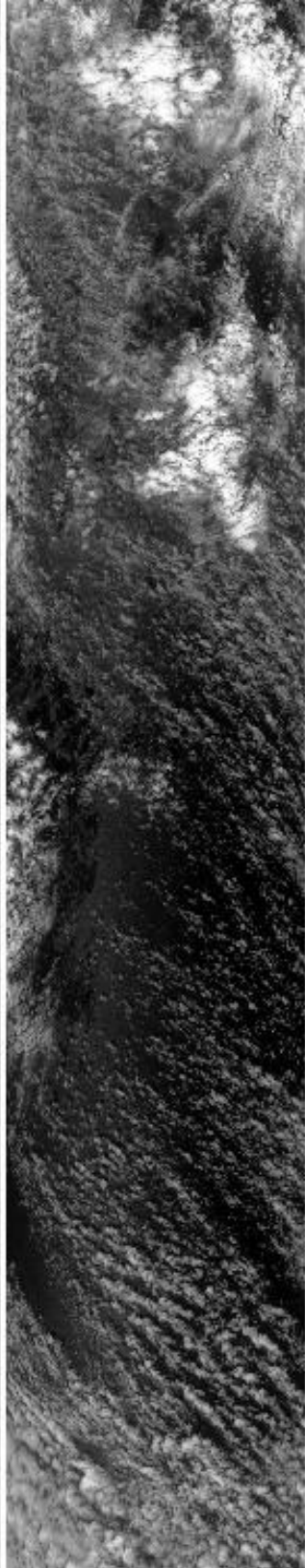
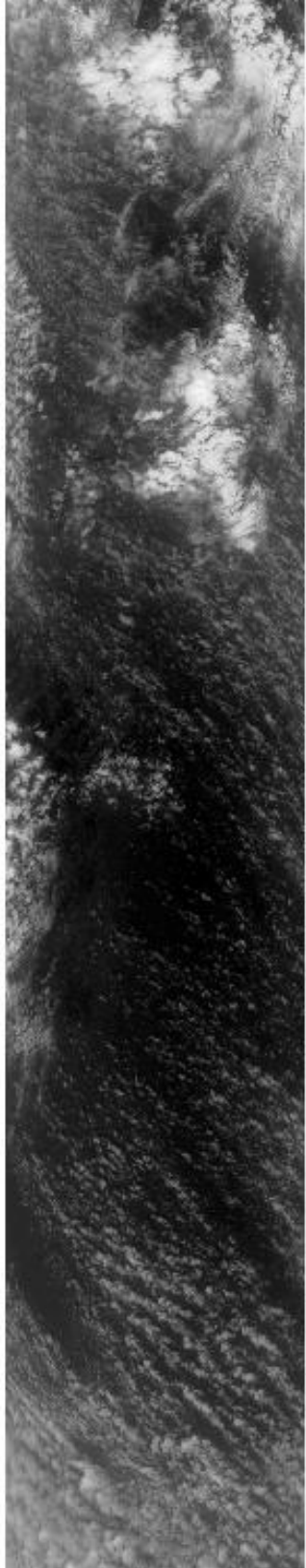
09:35:00

09:37:00

09:38:00

09:41:00

09:43:00



09:35:00

09:37:00

09:38:00

09:41:00

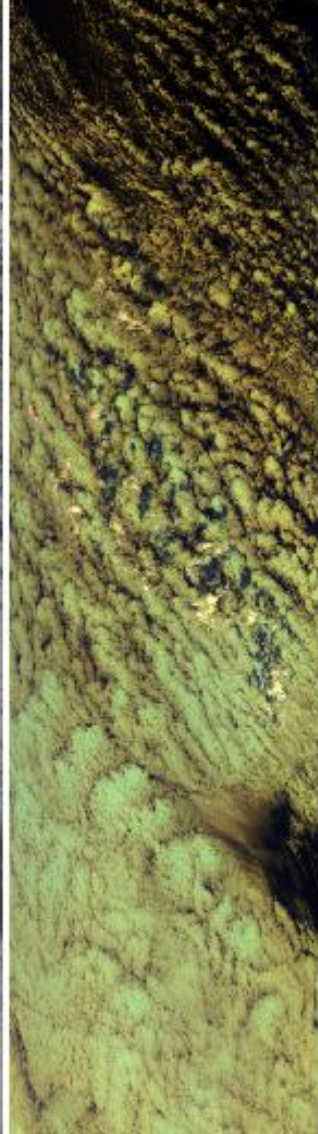
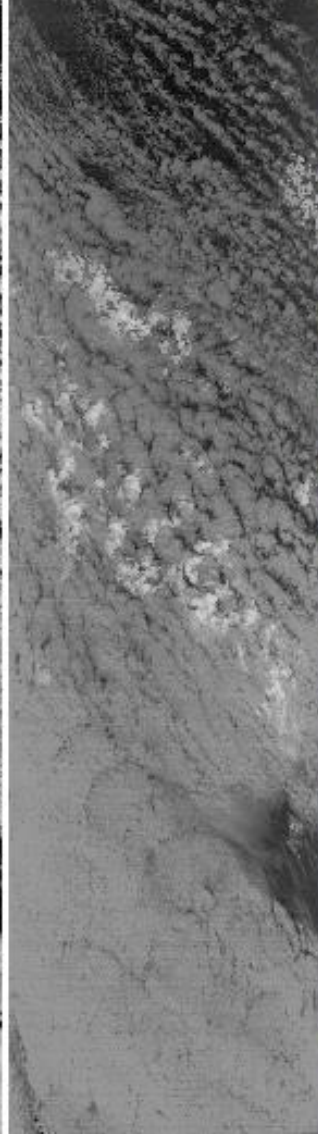
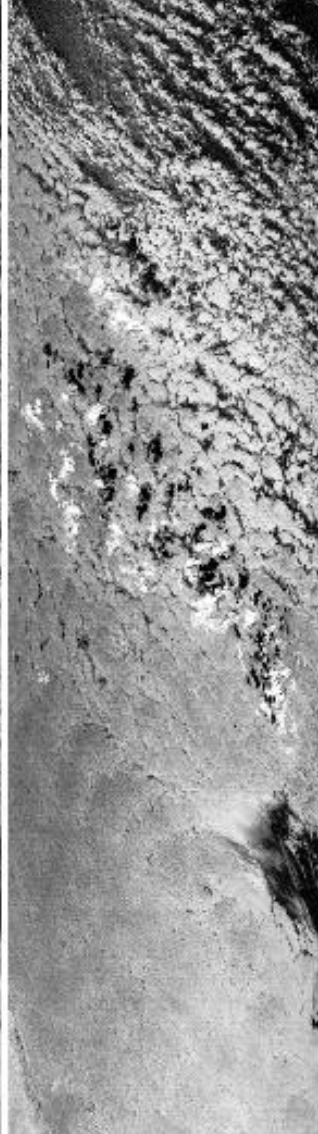
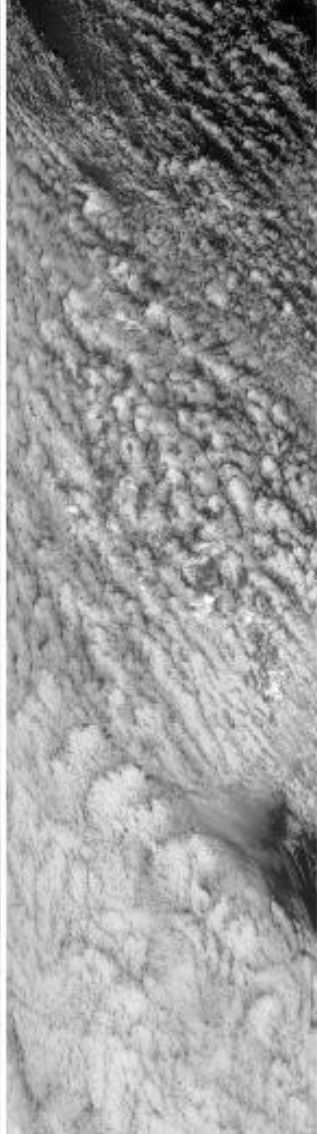
09:43:00

09:43:00

09:45:00

09:47:00

09:48:27



09:43:00

09:45:00

09:47:00

09:48:27

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Aircraft Heading = 10.7°

Solar Zenith = 47.4°

GPS Altitude = 19715. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign - 13 Sep 2000

Namibia Coast

Flight #00-175 Track #8

09:50:24



09:50:24

0.66µm (#3)

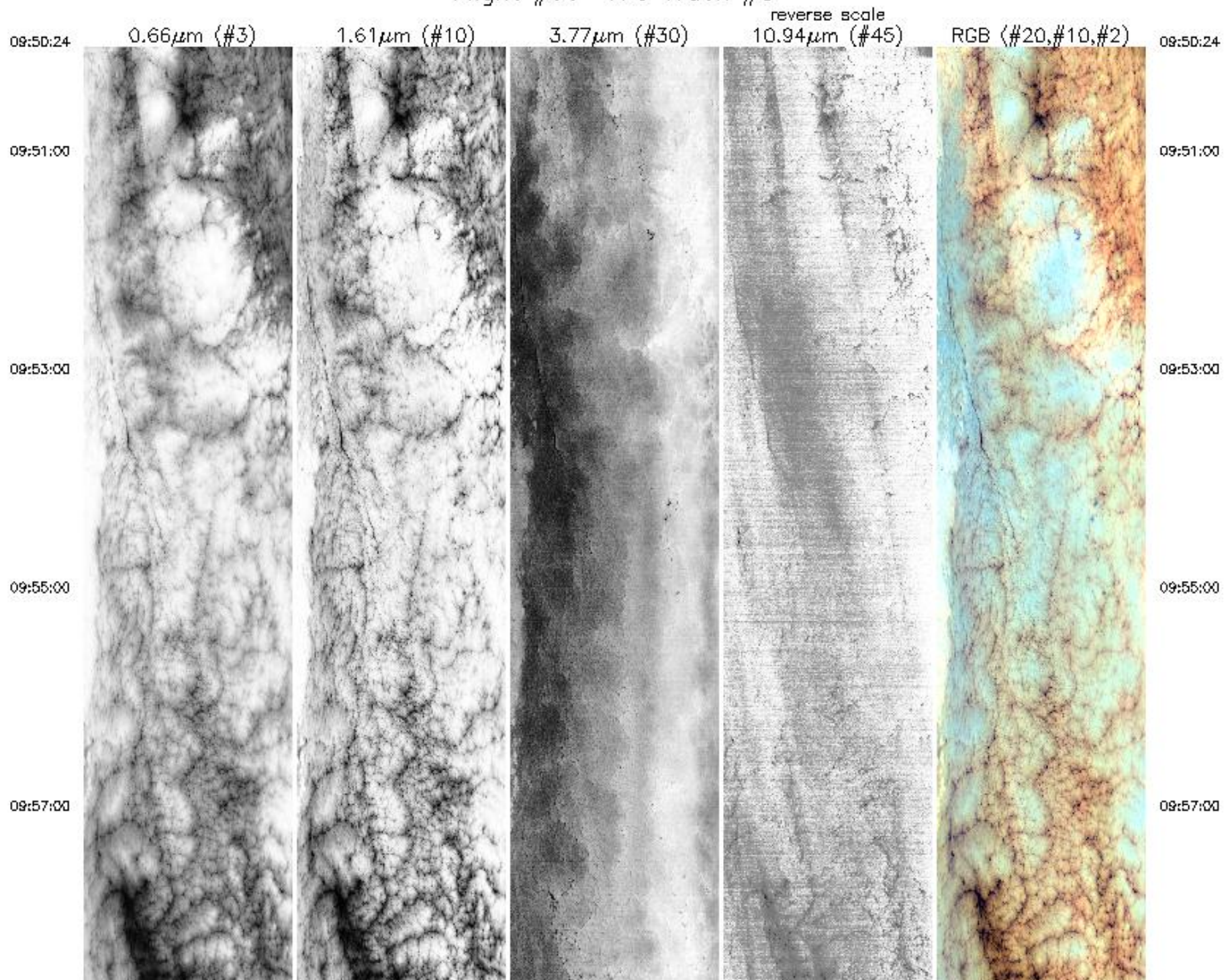
1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

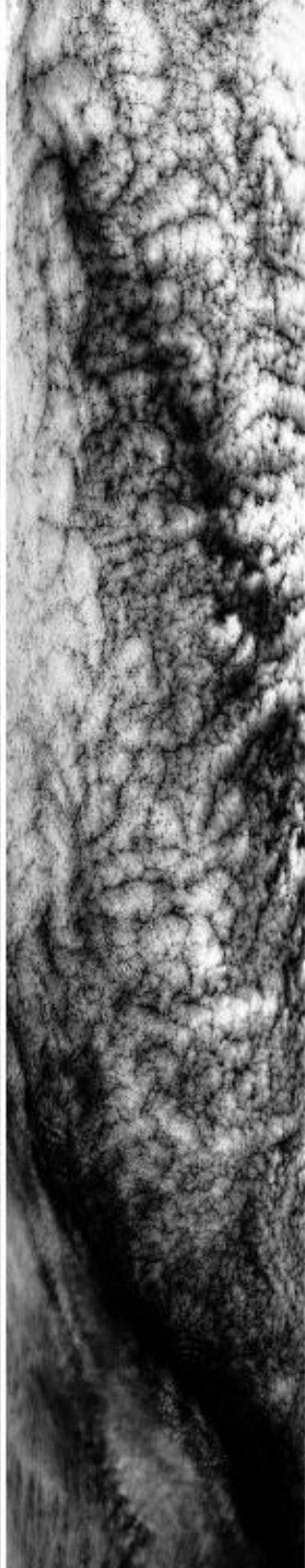
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia Coast
Flight #00-175 Track #8



09:57:00



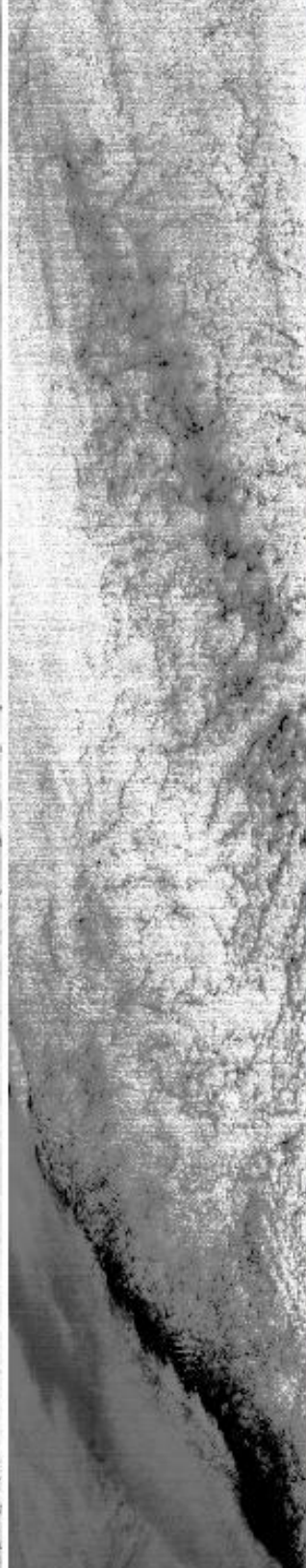
09:59:00



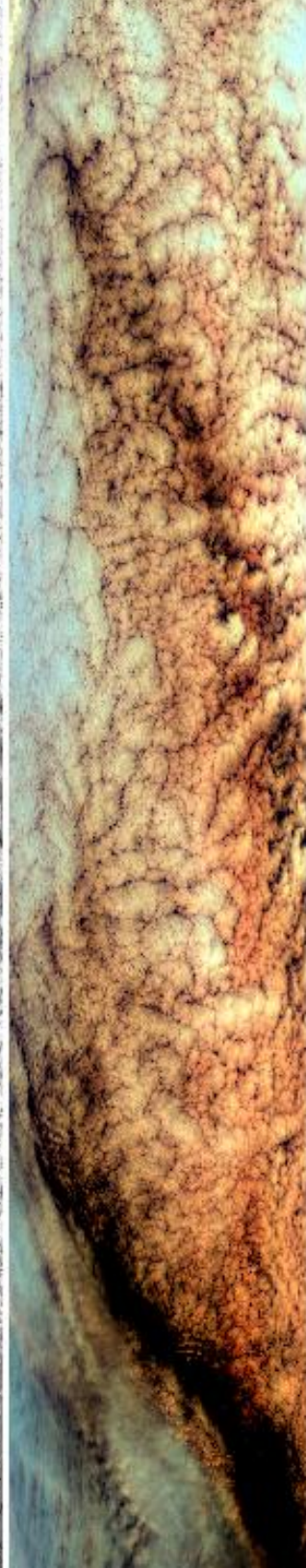
10:01:00



10:03:00



10:05:00



09:57:00

09:59:00

10:01:00

10:03:00

10:05:00

10:05:00

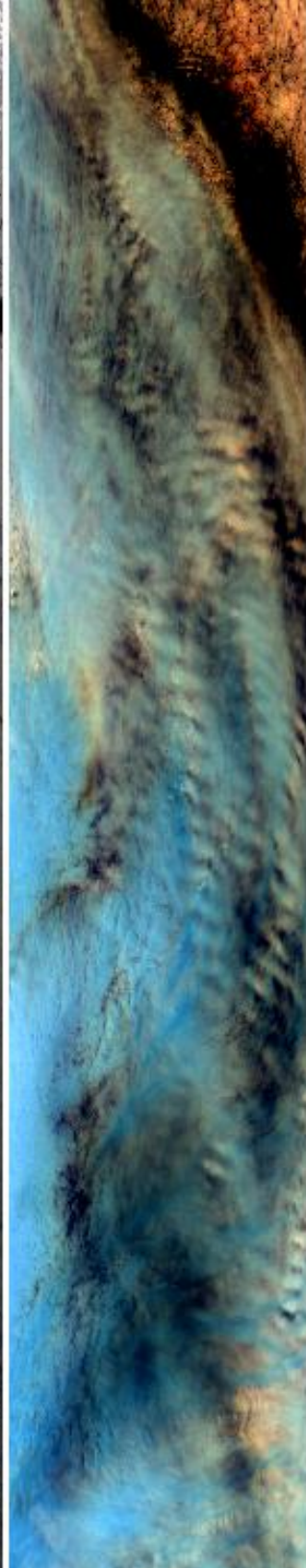
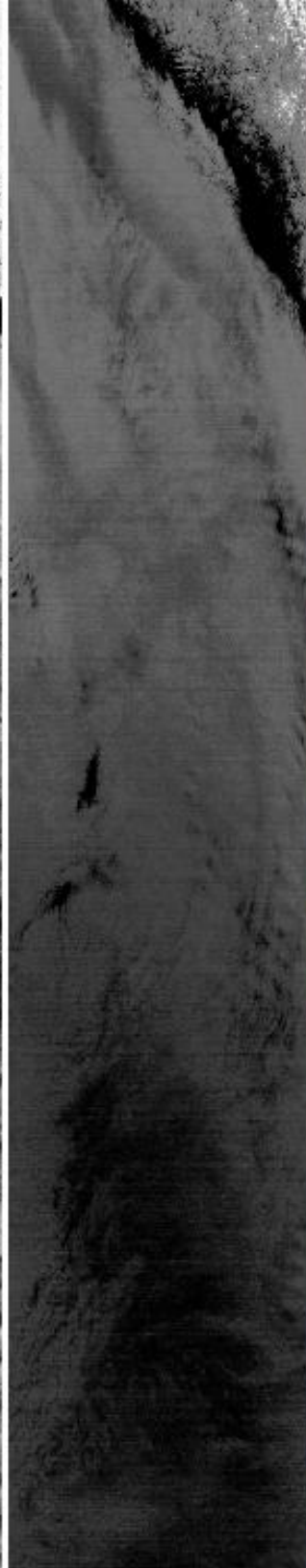
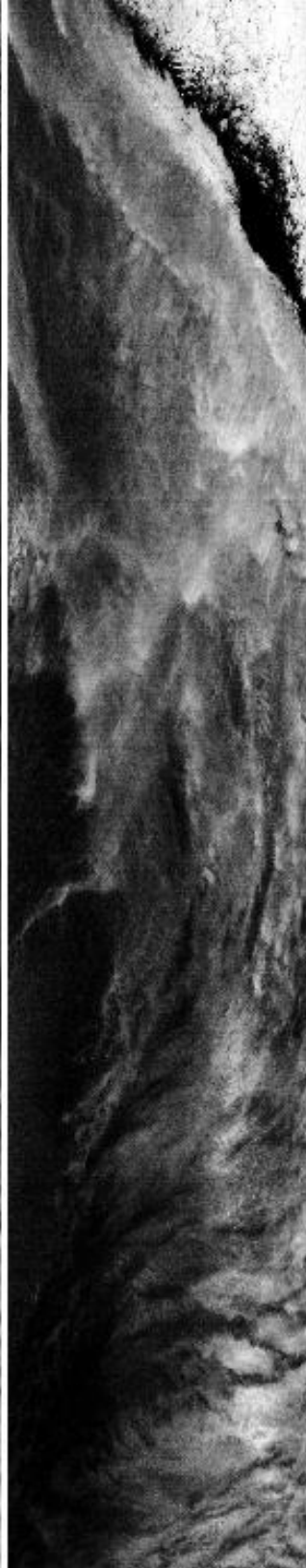
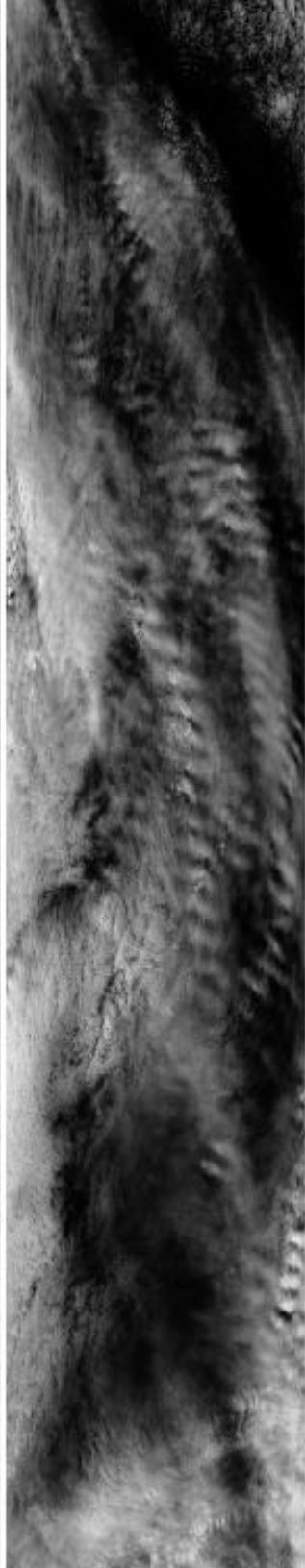
10:07:00

10:09:00

10:11:00

10:13:00

10:15:00



10:05:00

10:07:00

10:09:00

10:11:00

10:13:00

10:15:00

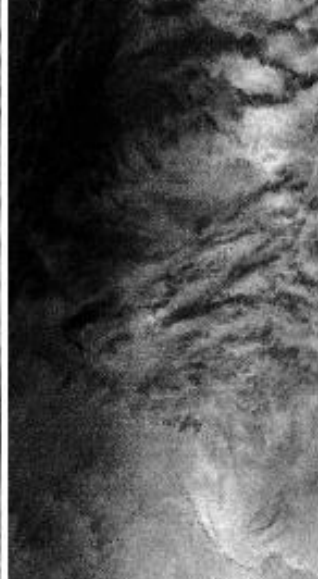
10:15:00



0.66 μ m (#3)



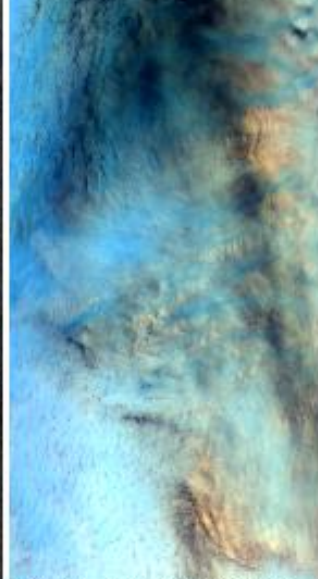
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

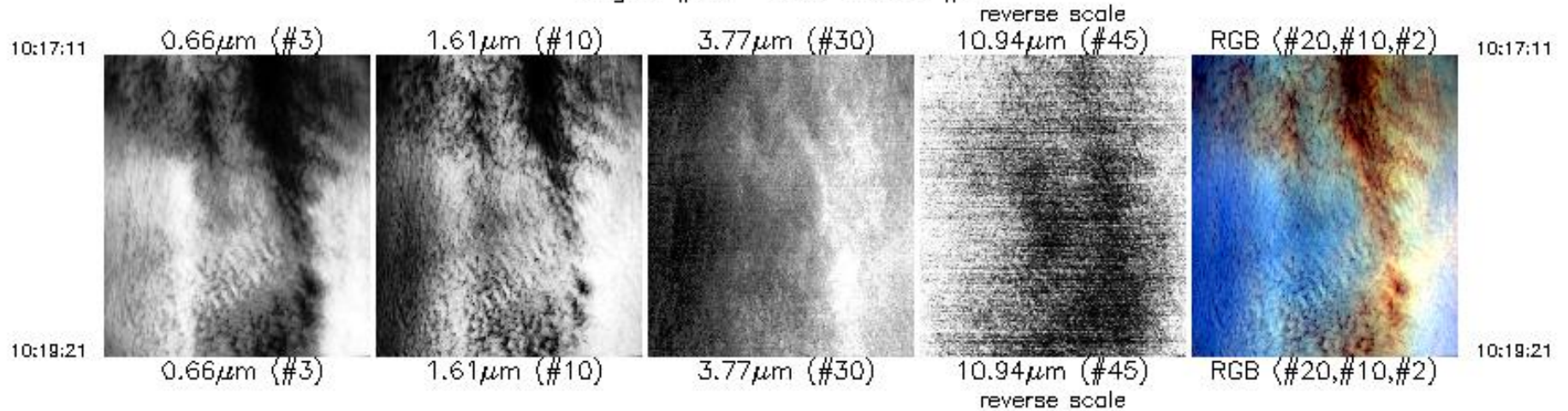
10:15:00

10:17:10

10:17:10

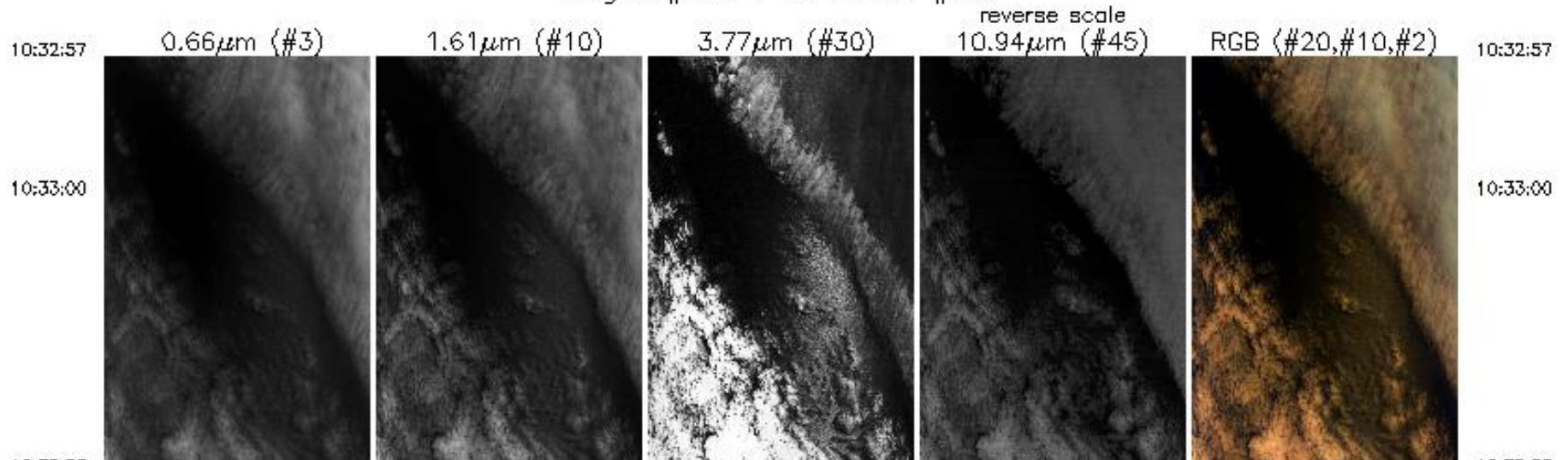
Aircraft Heading = 333.3°
Solar Zenith = 39.8°
GPS Altitude = 19843. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Namibia Coast
 Flight #00-175 Track #9



Aircraft Heading = 332.4°
 Solar Zenith = 33.1°
 GPS Altitude = 19879. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Namibia Coast
 Flight #00-175 Track #10



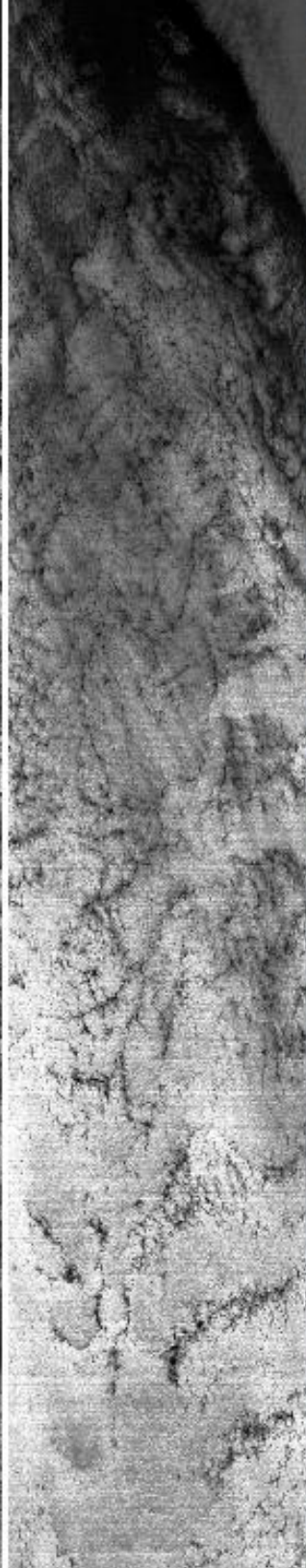
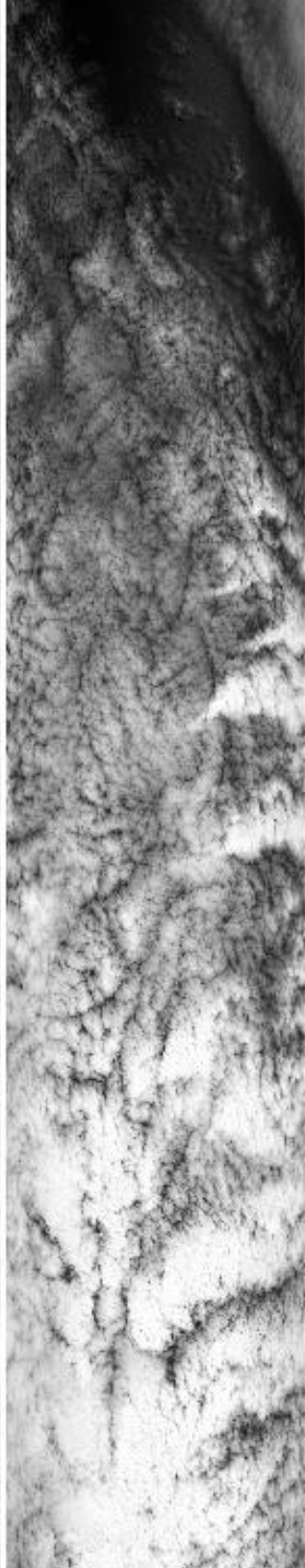
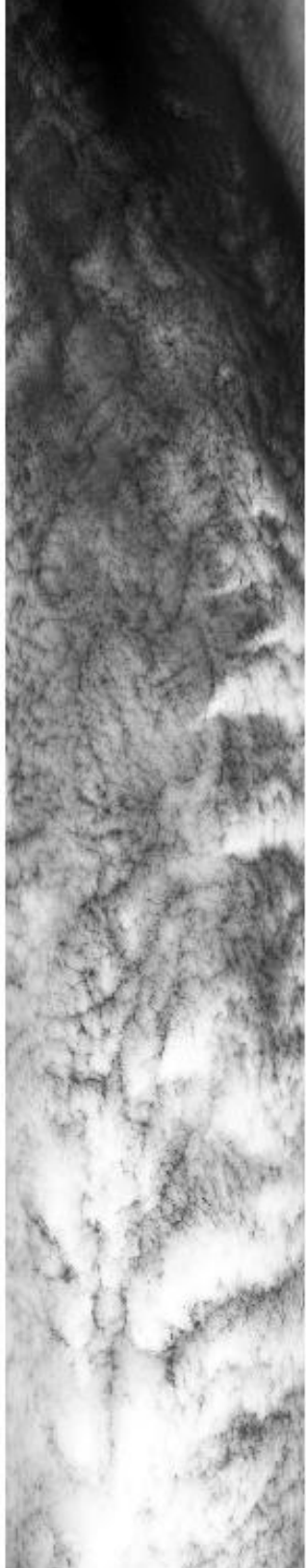
10:35:00

10:37:00

10:39:00

10:41:00

10:43:00



10:35:00

10:37:00

10:39:00

10:41:00

10:43:00

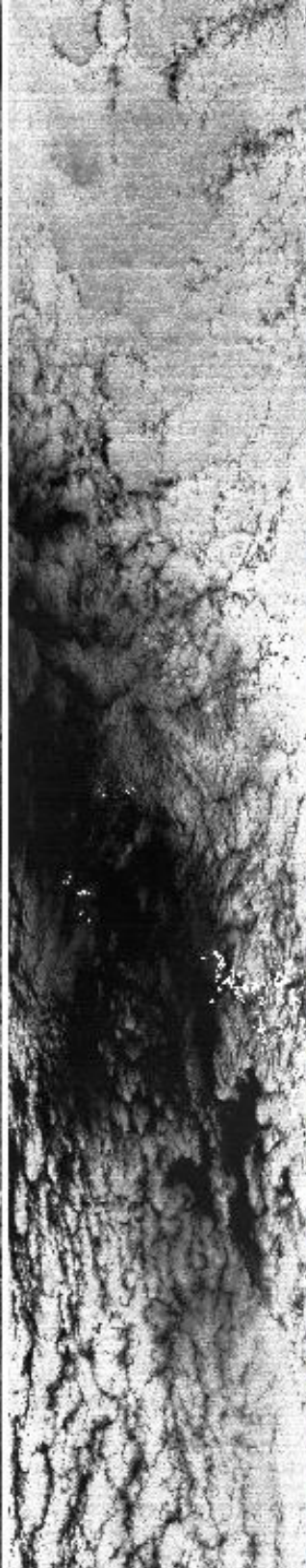
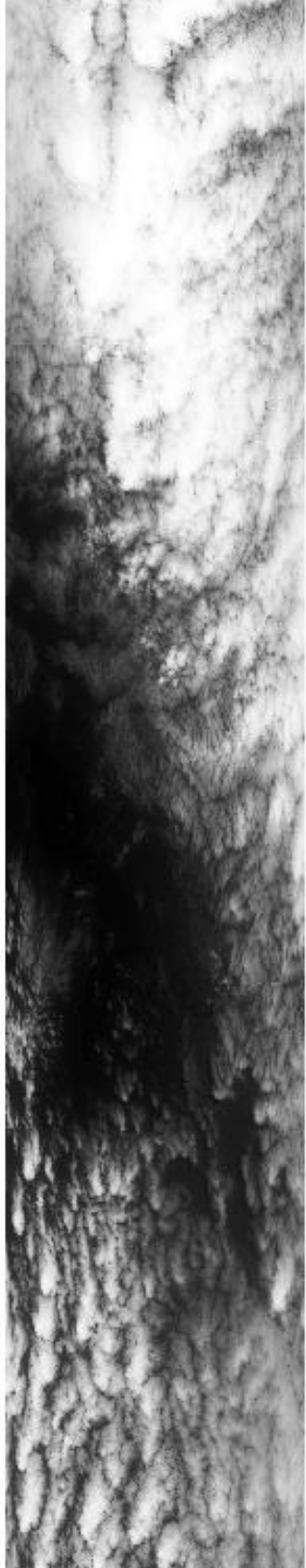
10:43:00

10:45:00

10:47:00

10:49:00

10:51:00



10:43:00

10:45:00

10:47:00

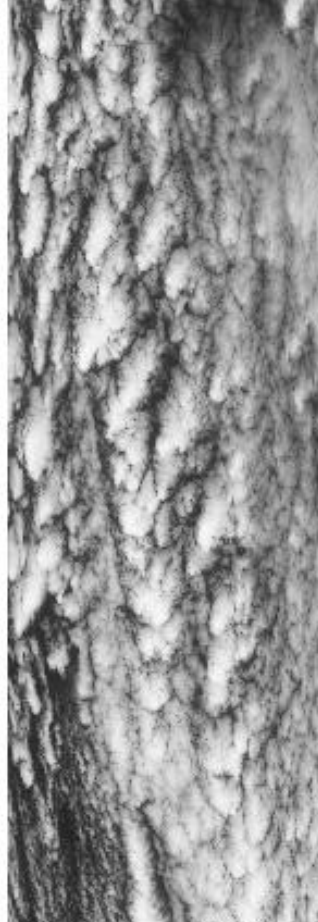
10:49:00

10:51:00

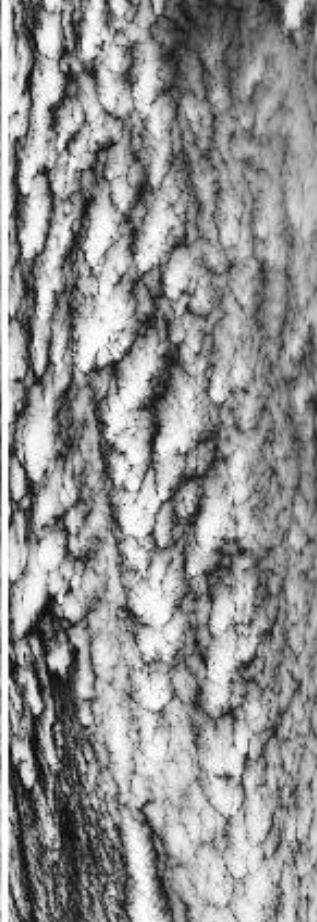
10:51:00

10:53:00

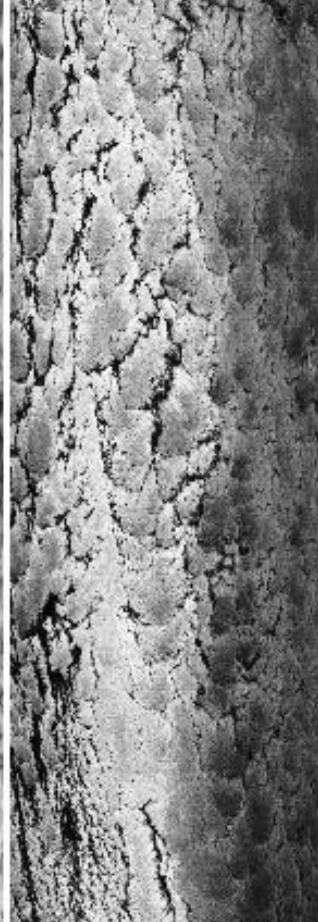
10:58:11



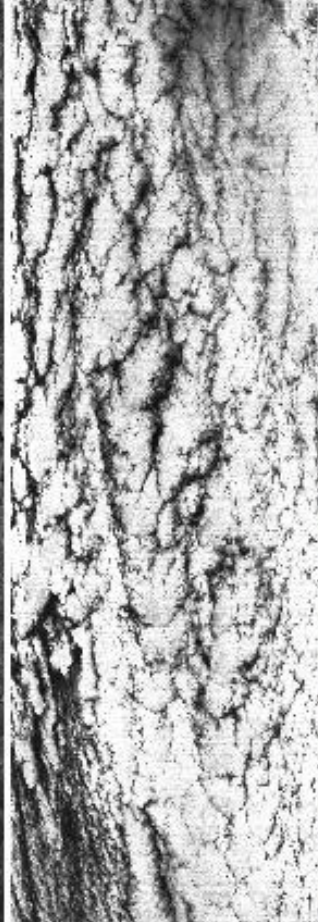
0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

10:51:00

10:53:00

10:58:11

Aircraft Heading = 150.9°

Solar Zenith = 31.0°

GPS Altitude = 19986. m (MSL)

MODIS Airborne Simulator Browse Imagery

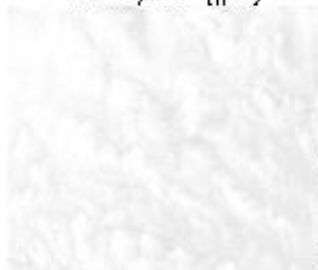
SAFARI 2000 Campaign – 13 Sep 2000

Namibia

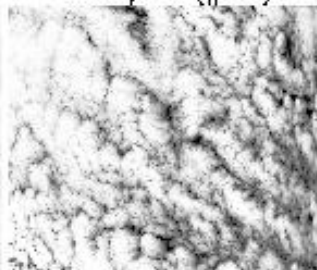
Flight #00-175 Track #11

10:57:59

10:58:00



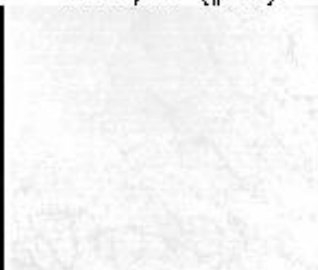
0.66 μ m (#3)



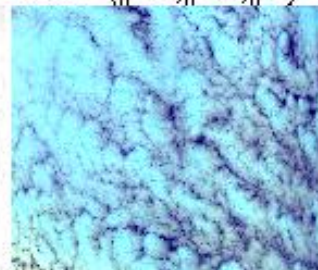
1.61 μ m (#10)



3.77 μ m (#30)



reverse scale
10.94 μ m (#45)



RGB (#20,#10,#2)

10:57:59

10:58:00

10:57:58

0.66 μm (#3)

1.61 μm (#10)

3.77 μm (#30)

10.94 μm (#45)

RGB (#20,#10,#2)

10:57:58

10:58:00

10:58:00

11:00:00

11:00:00

11:02:00

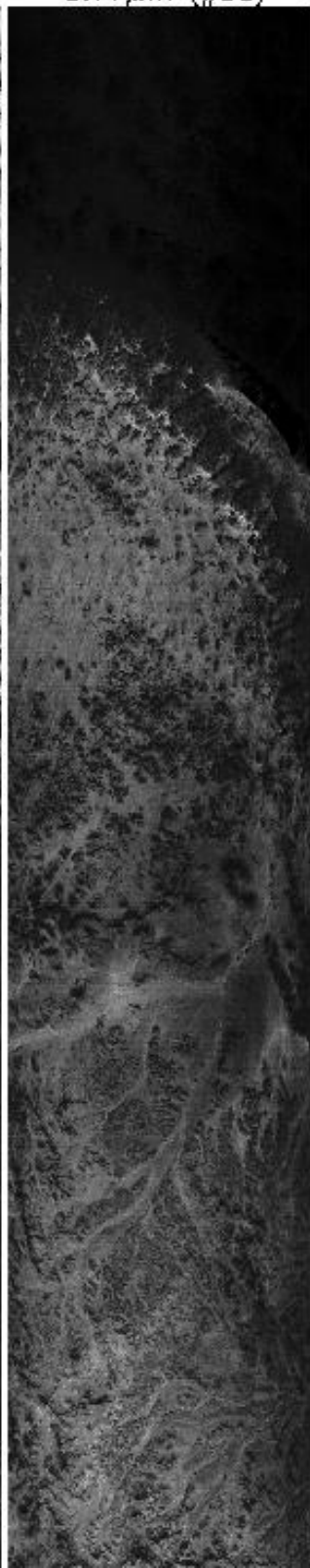
11:02:00

11:04:00

11:04:00

11:06:00

11:06:00



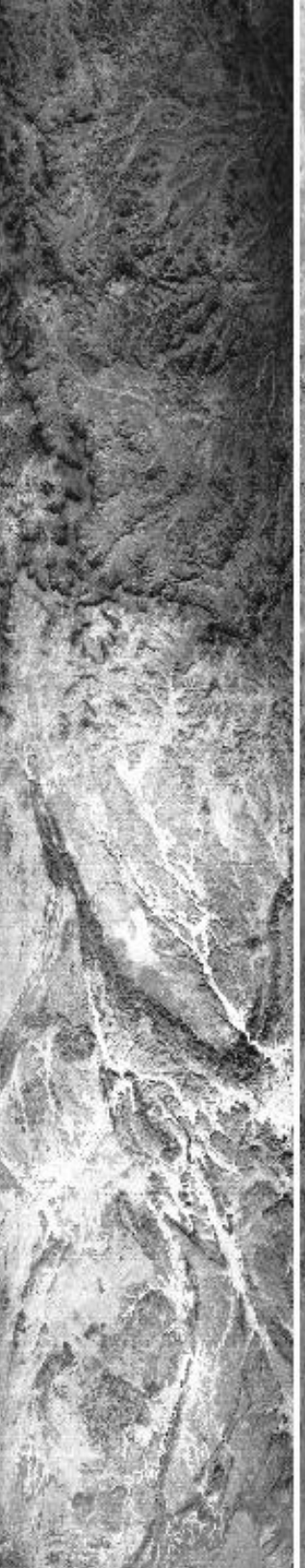
11:06:00



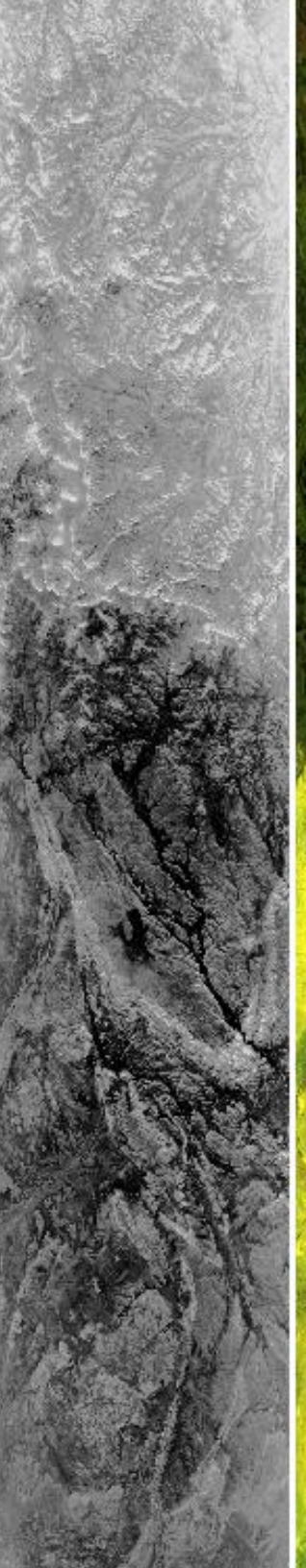
11:08:00



11:10:00



11:12:00



11:14:00



11:06:00

11:08:00

11:10:00

11:12:00

11:14:00

11:14:00



11:16:00



11:18:00



11:20:00



11:22:00



11:14:00

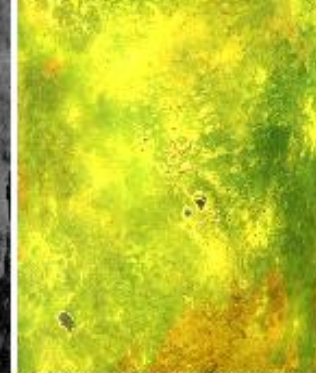
11:16:00

11:18:00

11:20:00

11:22:00

11:22:00



11:22:00

11:24:48

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

11:24:48

Aircraft Heading = 39.2°

Solar Zenith = 28.9°

GPS Altitude = 20064. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #12

11:25:37

0.66µm (#3)

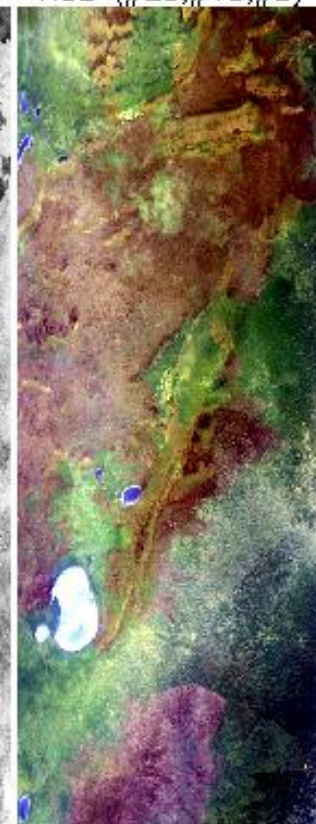
1.61µm (#10)

3.77µm (#30)

reverse scale
10.94µm (#45)

RGB (#20,#10,#2)

11:25:37



11:26:00

11:28:00

11:30:00

11:26:00

11:28:00

11:30:00

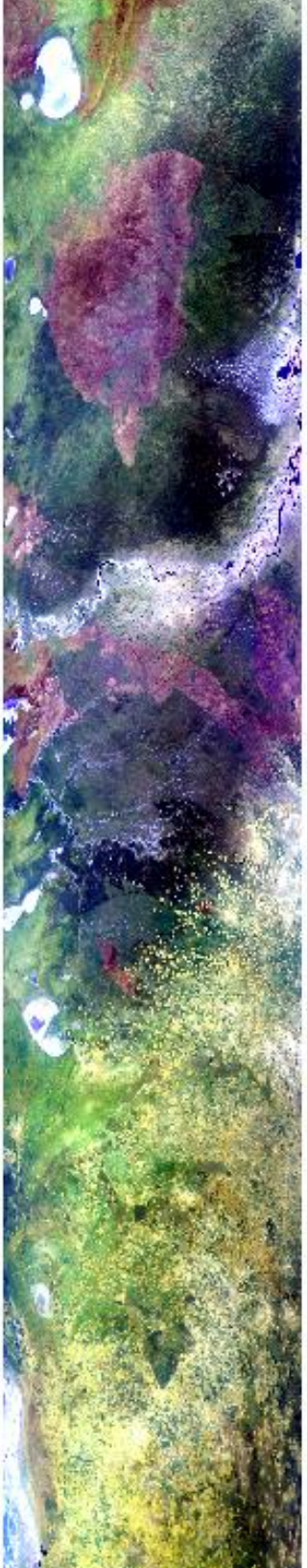
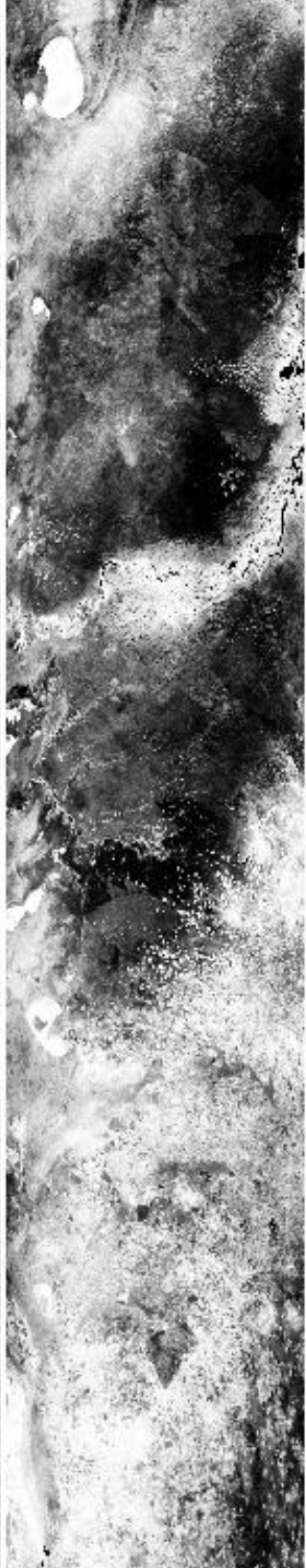
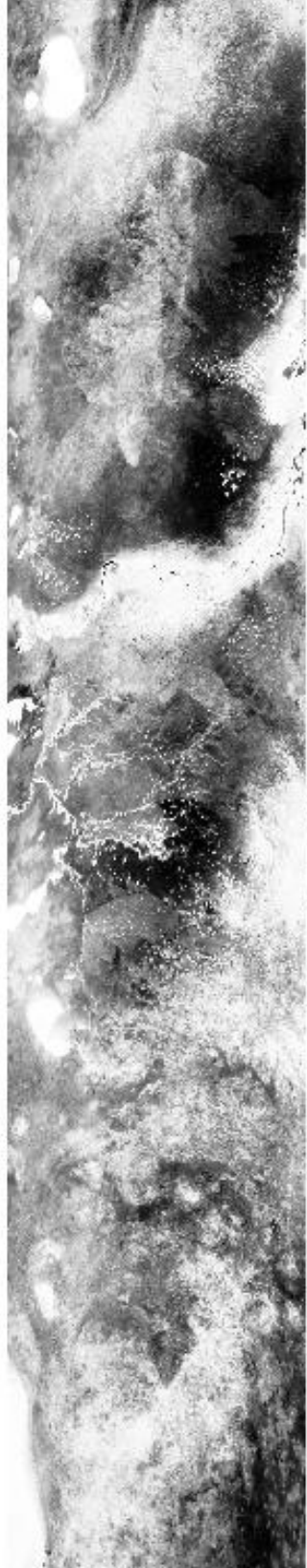
11:30:00

11:32:00

11:34:00

11:36:00

11:38:00



11:30:00

11:32:00

11:34:00

11:36:00

11:38:00

11:38:00



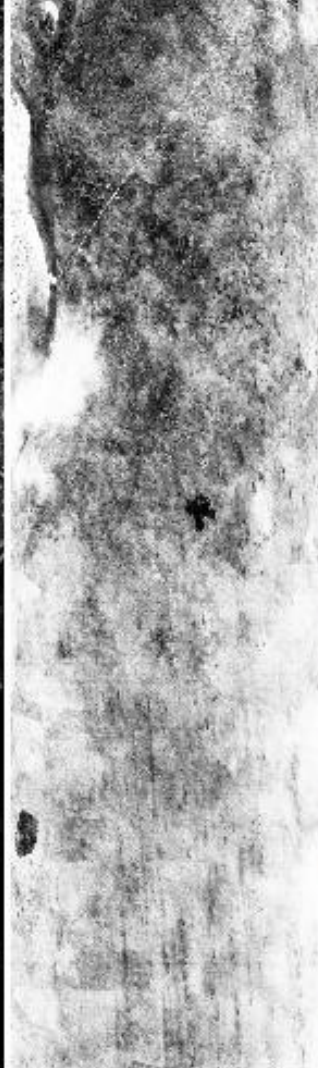
0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

11:38:00

11:40:00

11:40:00

11:42:00

11:42:00

11:43:38

11:43:38

Aircraft Heading = 78.8°

Solar Zenith = 23.6°

GPS Altitude = 20204. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign - 13 Sep 2000

Namibia

Flight #00-175 Track #13

11:47:30



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale

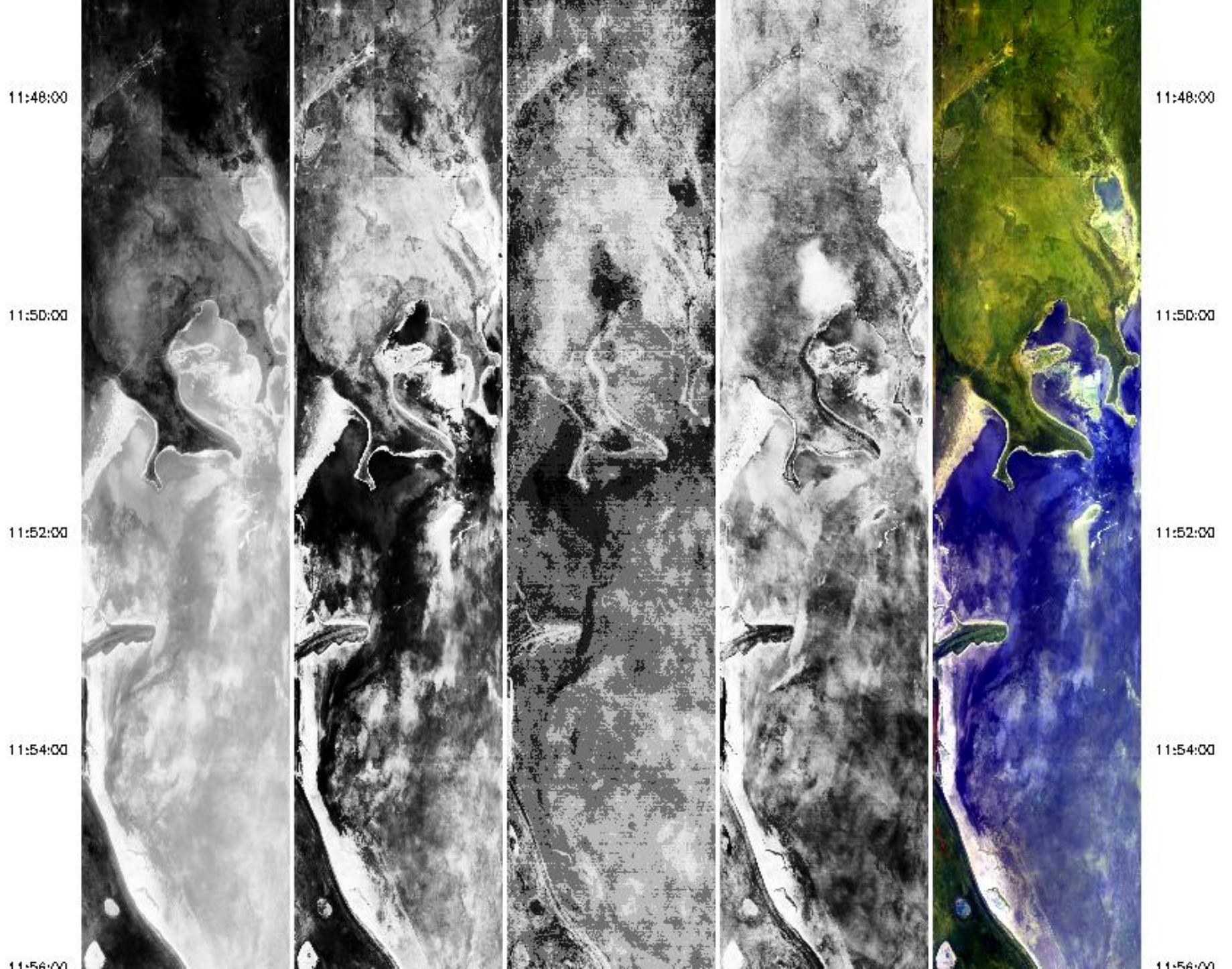


RGB (#20,#10,#2)

11:47:30

SAFARI 2000 Campaign - 13 Sep 2000
Namibia
Flight #00-175 Track #13

11:47:30 0.66 μ m (#3) 1.61 μ m (#10) 3.77 μ m (#30) reverse scale 10.94 μ m (#45) RGB (#20,#10,#2) 11:47:30



11:56:00

11:58:00

12:00:00

12:02:00

12:04:00



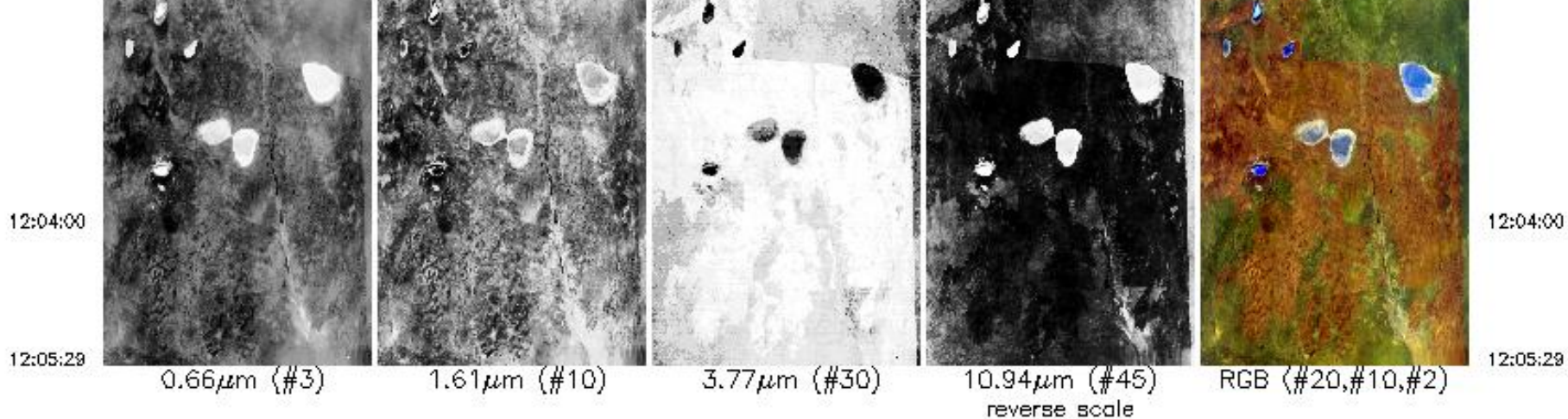
11:56:00

11:58:00

12:00:00

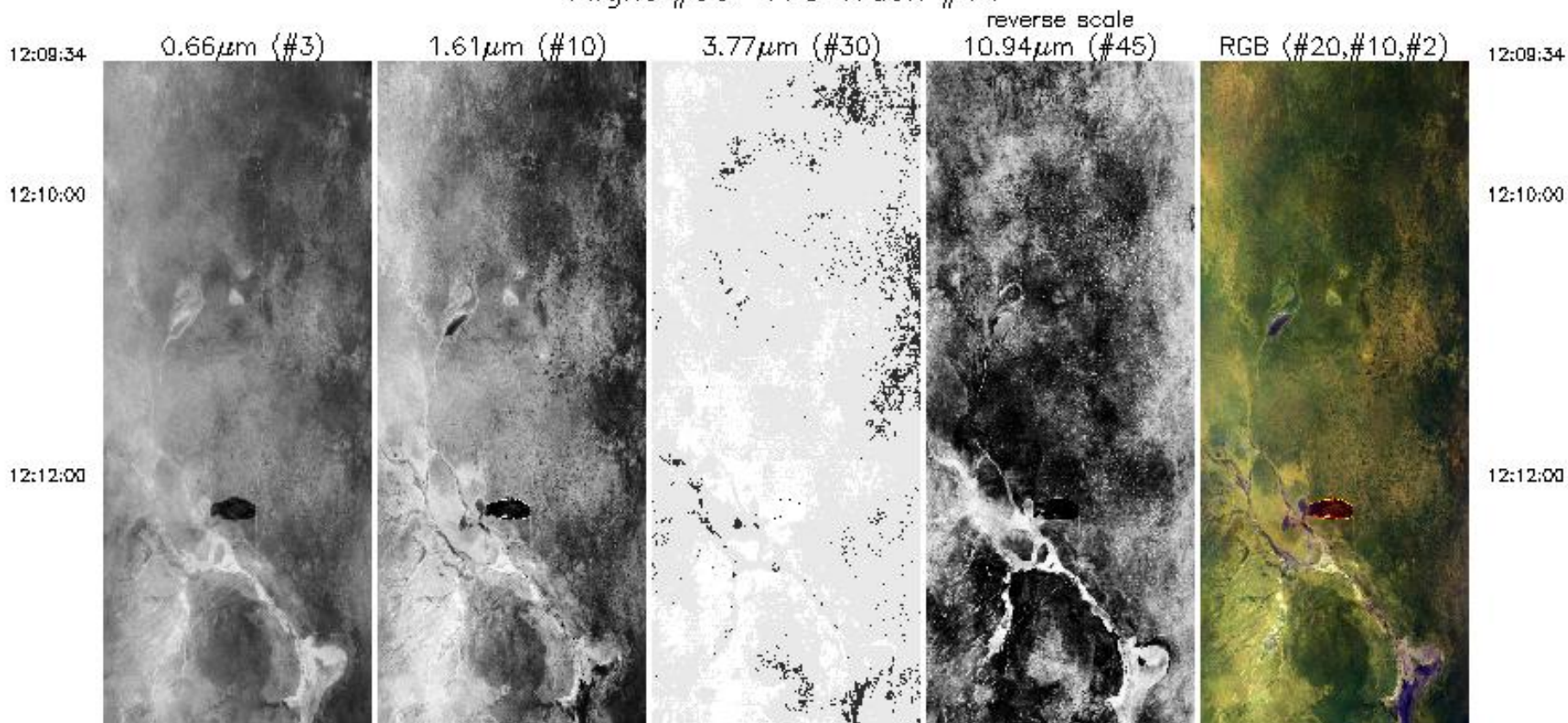
12:02:00

12:04:00



Aircraft Heading = 266.7°
 Solar Zenith = 22.2°
 GPS Altitude = 19913. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Namibia
 Flight #00-175 Track #14



12:12:00



12:14:00



12:16:00



12:18:00



12:20:00



12:22:00



12:12:00

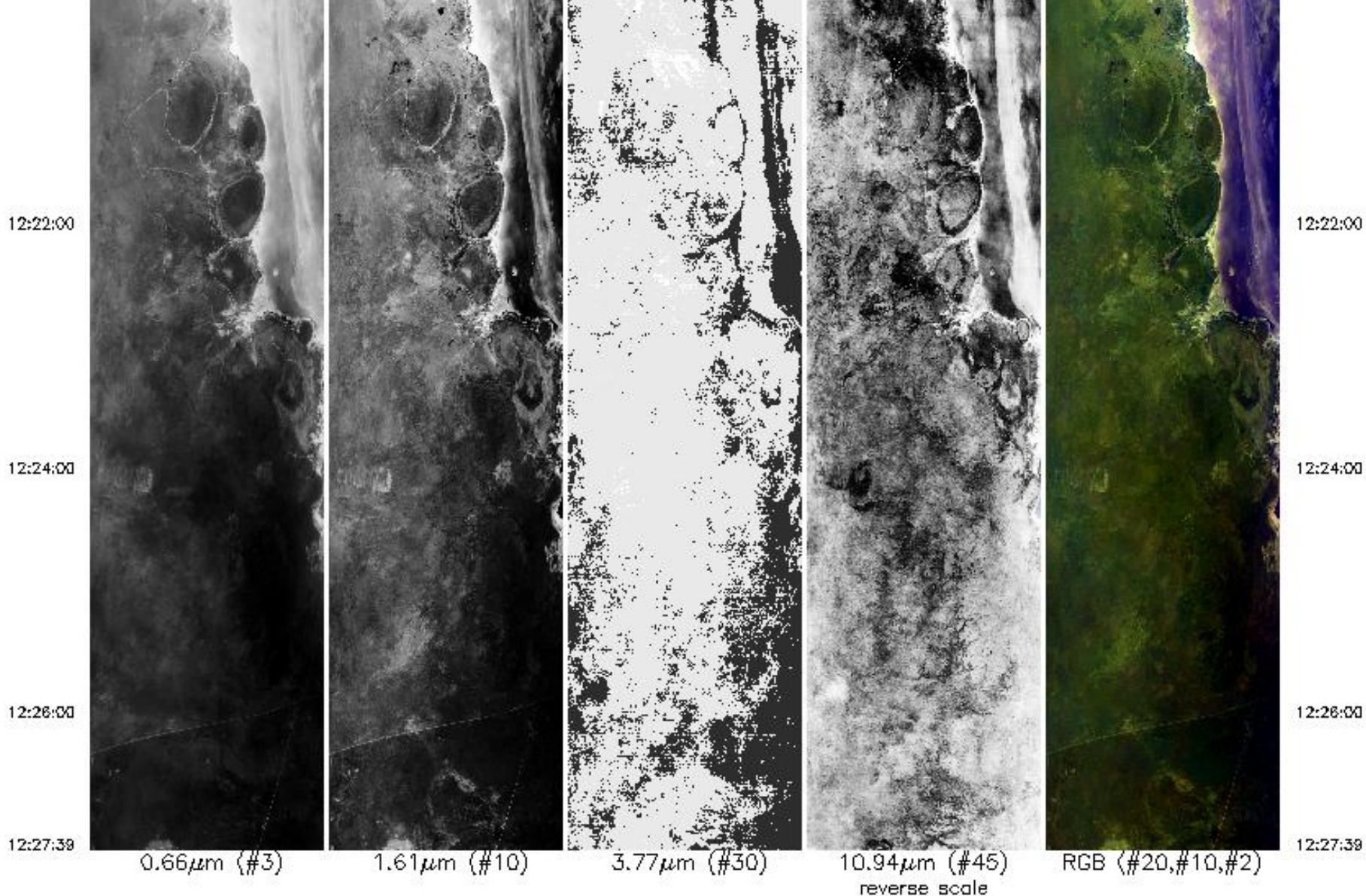
12:14:00

12:16:00

12:18:00

12:20:00

12:22:00



Aircraft Heading = 94.1°

Solar Zenith = 22.8°

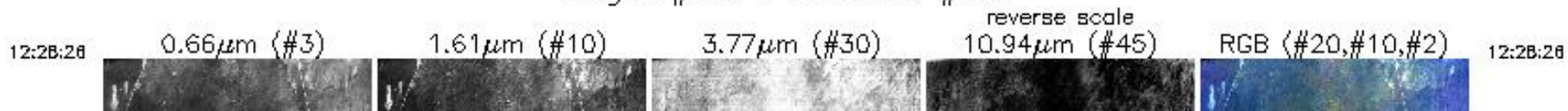
GPS Altitude = 19970. m (MSL)

MODIS Airborne Simulator Browse Imagery

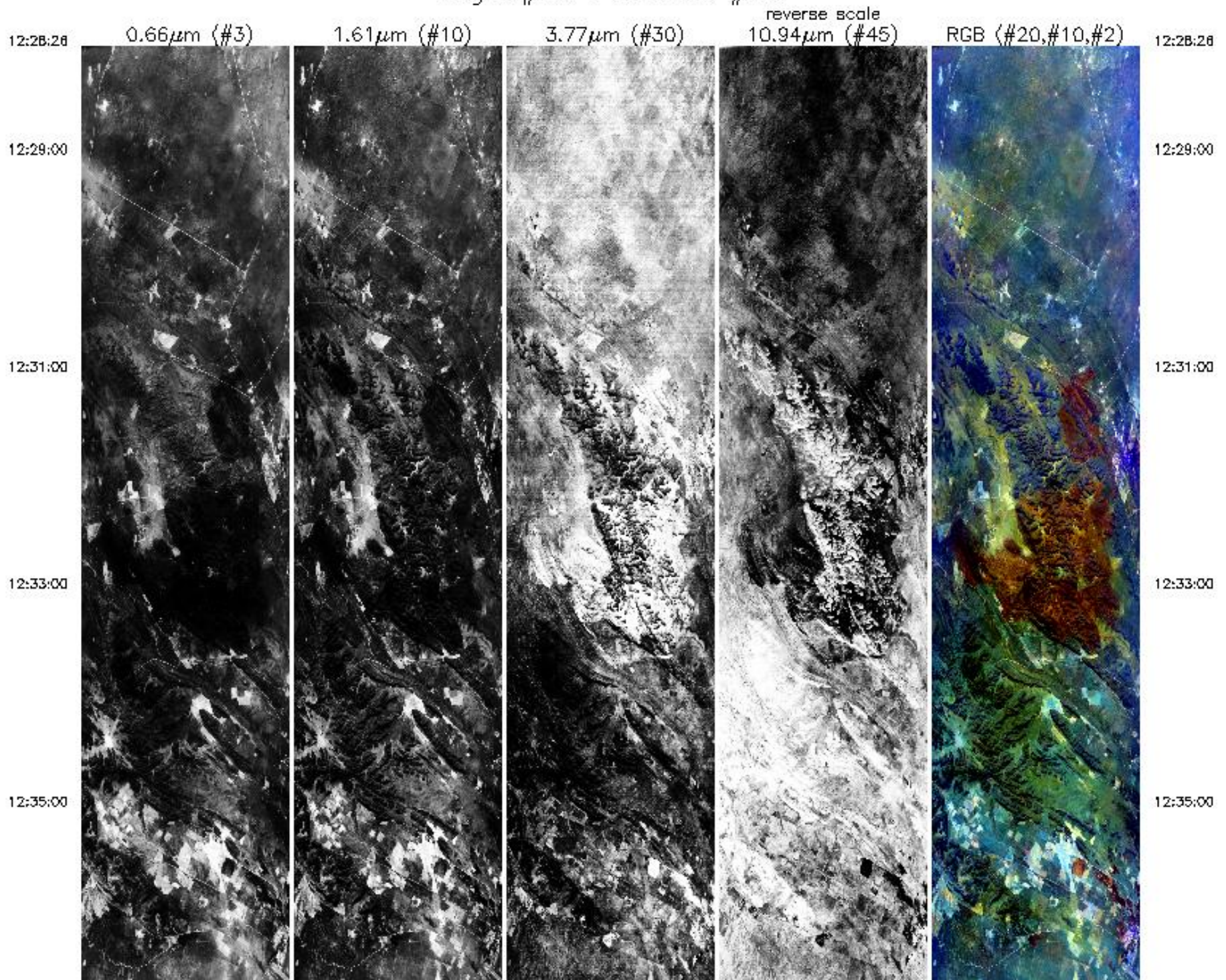
SAFARI 2000 Campaign - 13 Sep 2000

Namibia

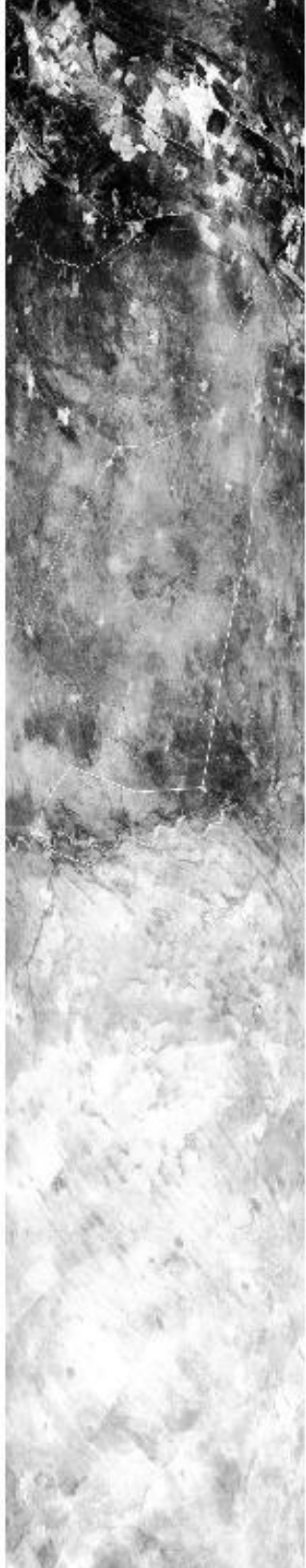
Flight #00-175 Track #15



MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Namibia
Flight #00-175 Track #15



12:35:00



12:37:00



12:39:00



12:41:00



12:43:00



12:35:00

12:37:00

12:39:00

12:41:00

12:43:00

12:45:00

12:47:00

12:49:00

12:51:00

12:53:00



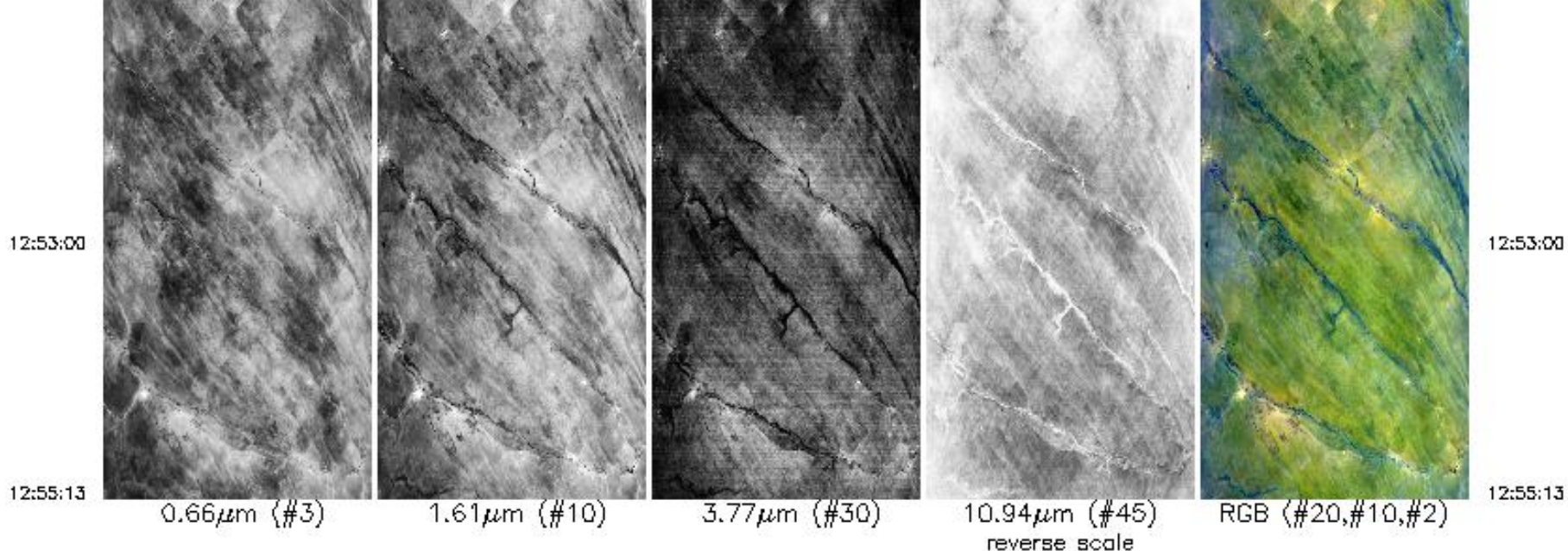
12:45:00

12:47:00

12:49:00

12:51:00

12:53:00



Aircraft Heading = 133.8°

Solar Zenith = 23.7°

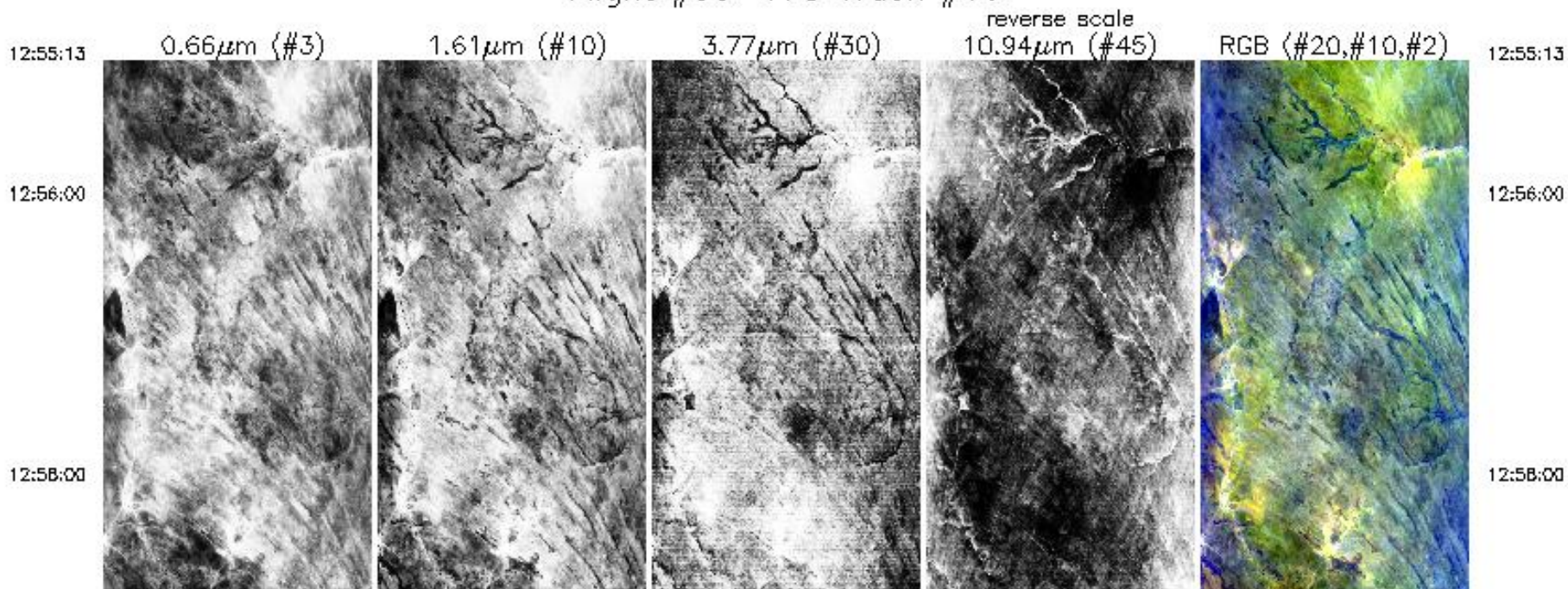
GPS Altitude = 20053. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 13 Sep 2000

Namibia

Flight #00-175 Track #16



12:58:00



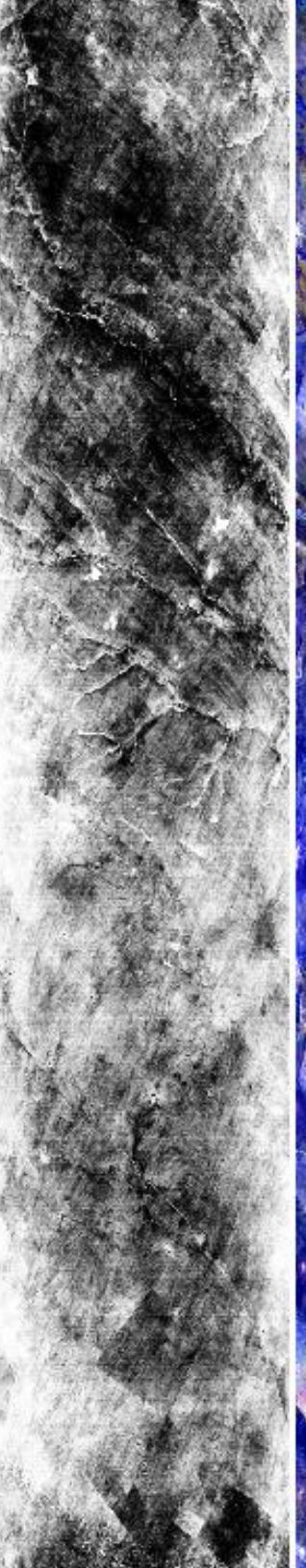
13:00:00



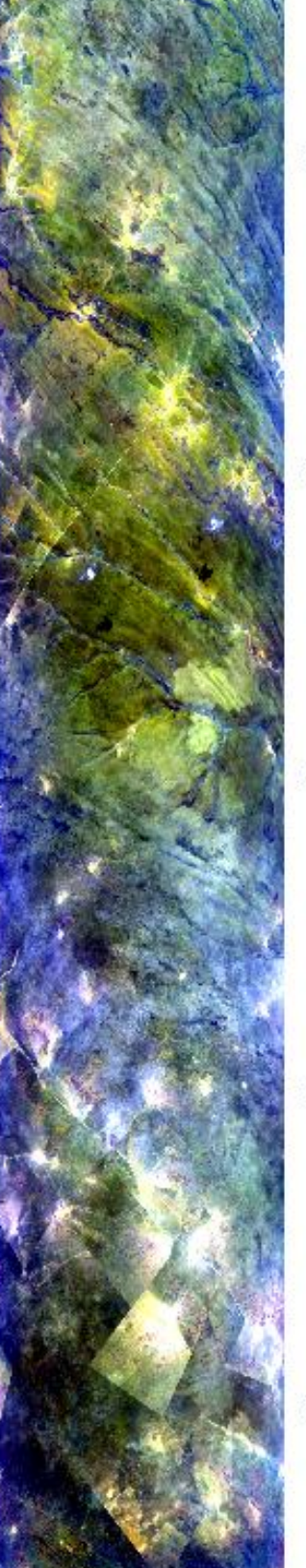
13:02:00



13:04:00



13:06:00



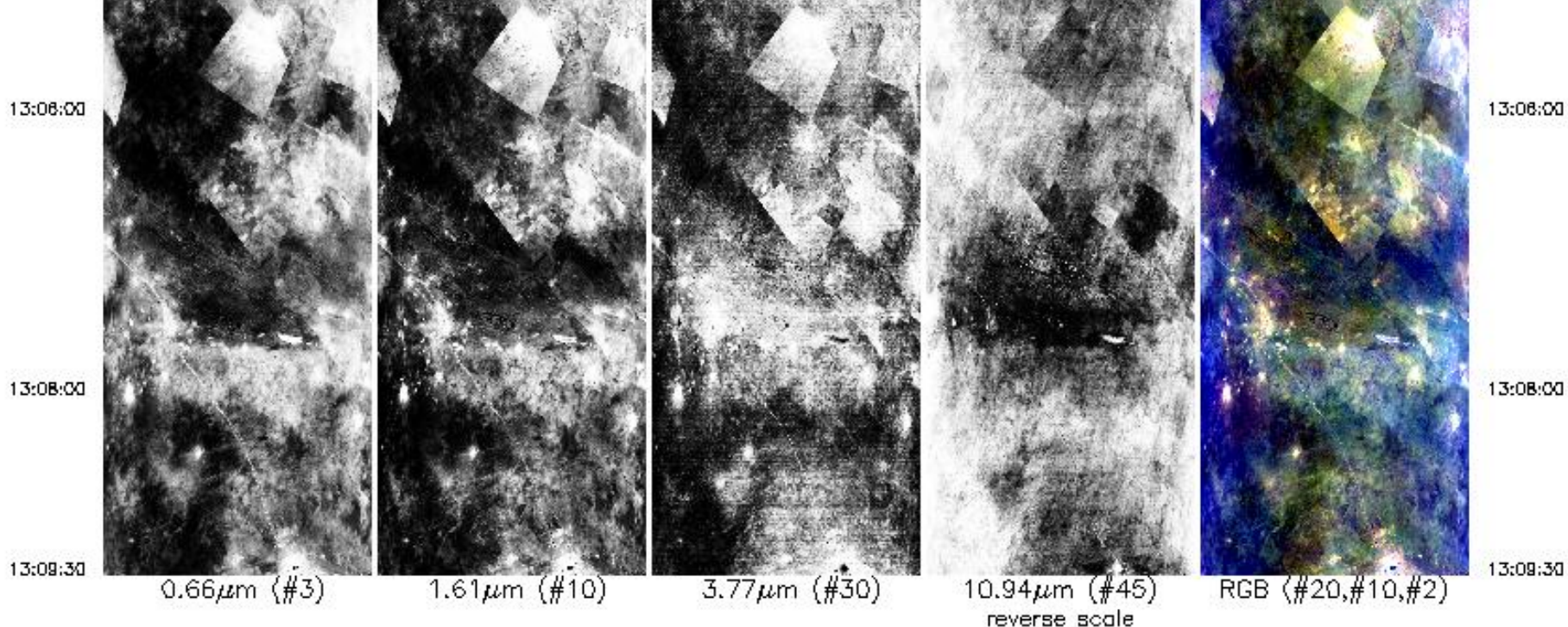
12:58:00

13:00:00

13:02:00

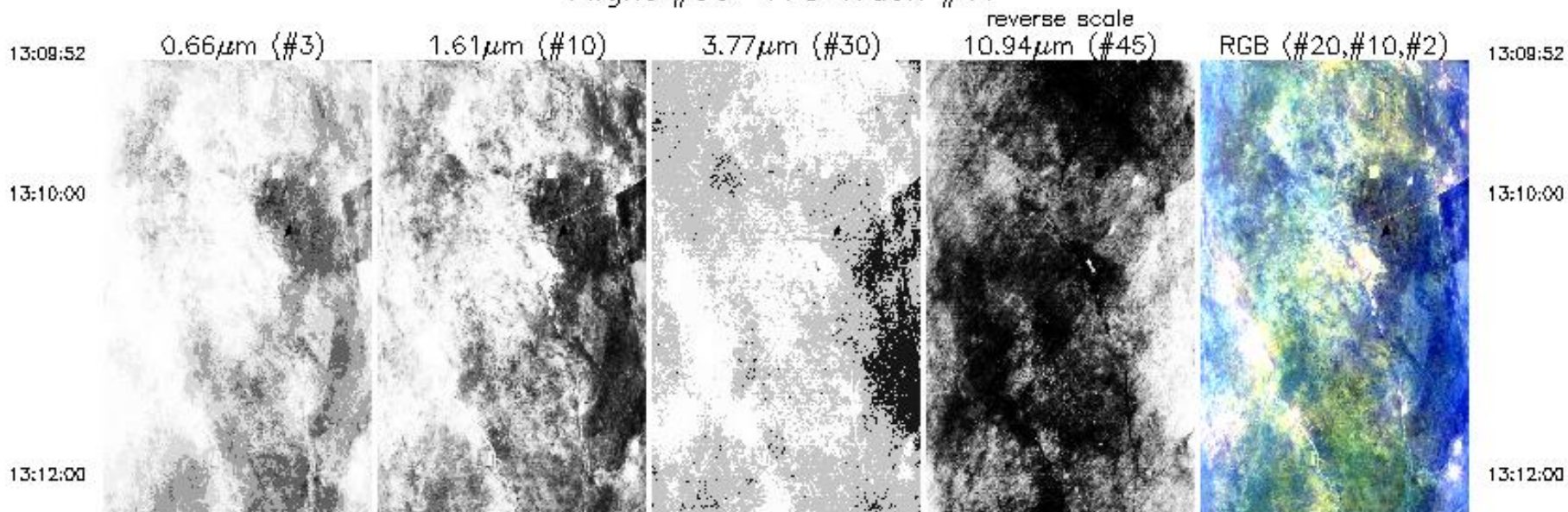
13:04:00

13:06:00



Aircraft Heading = 136.3°
 Solar Zenith = 28.2°
 GPS Altitude = 20117. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 13 Sep 2000
 Botswana
 Flight #00–175 Track #17



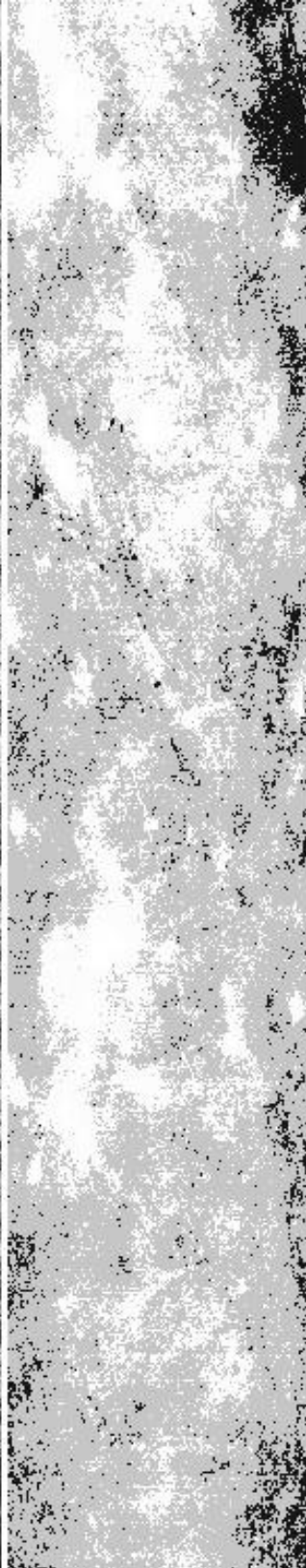
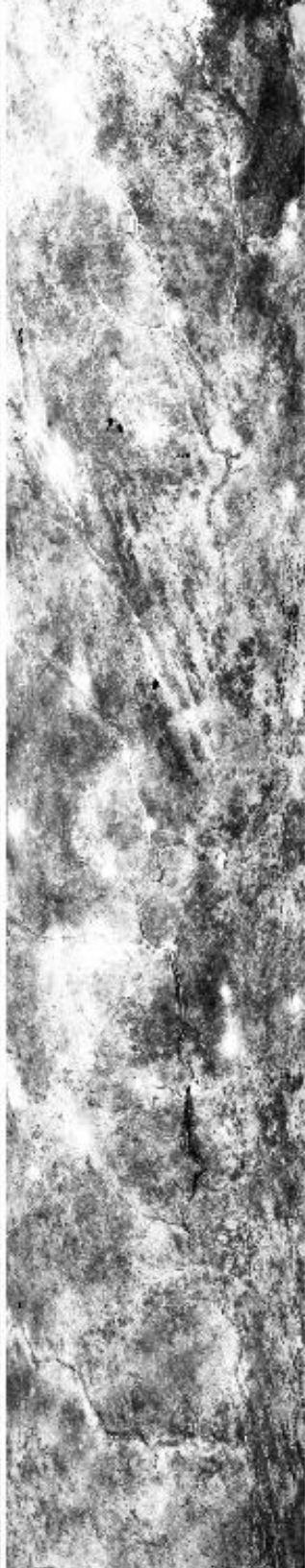
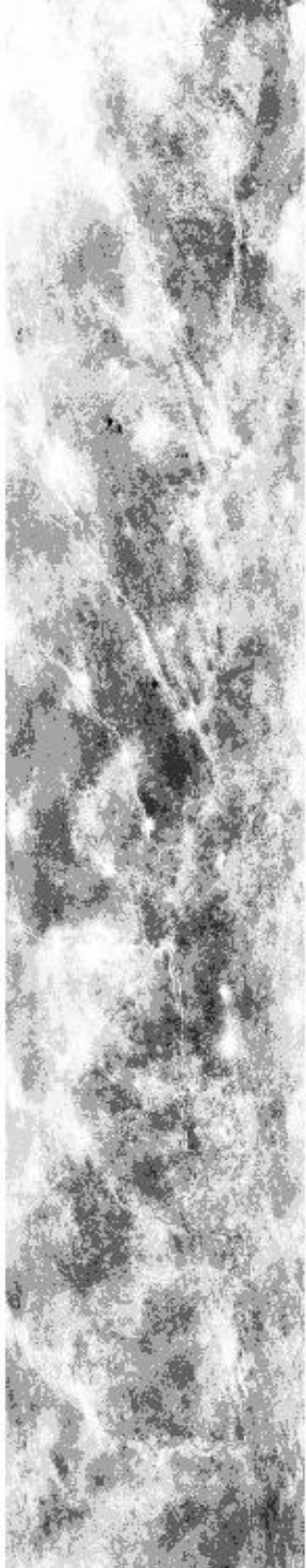
13:12:00

13:14:00

13:16:00

13:18:00

13:20:00



13:12:00

13:14:00

13:16:00

13:18:00

13:20:00

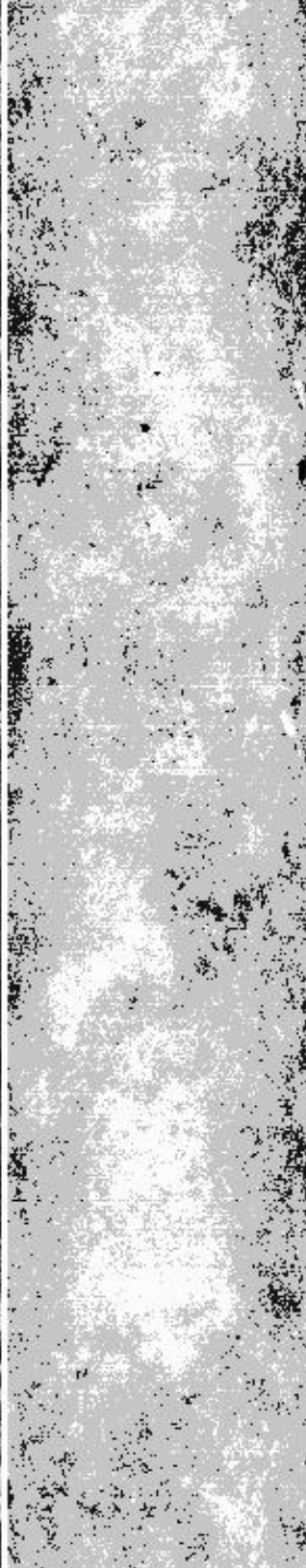
13:20:00

13:22:00

13:24:00

13:26:00

13:28:00



13:20:00

13:22:00

13:24:00

13:26:00

13:28:00

13:28:00

13:28:00

13:30:00

13:30:00

13:32:00

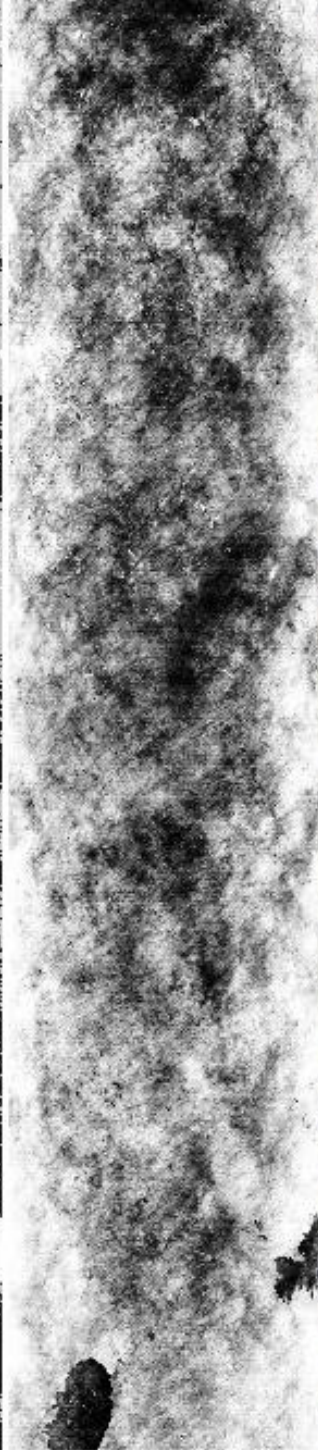
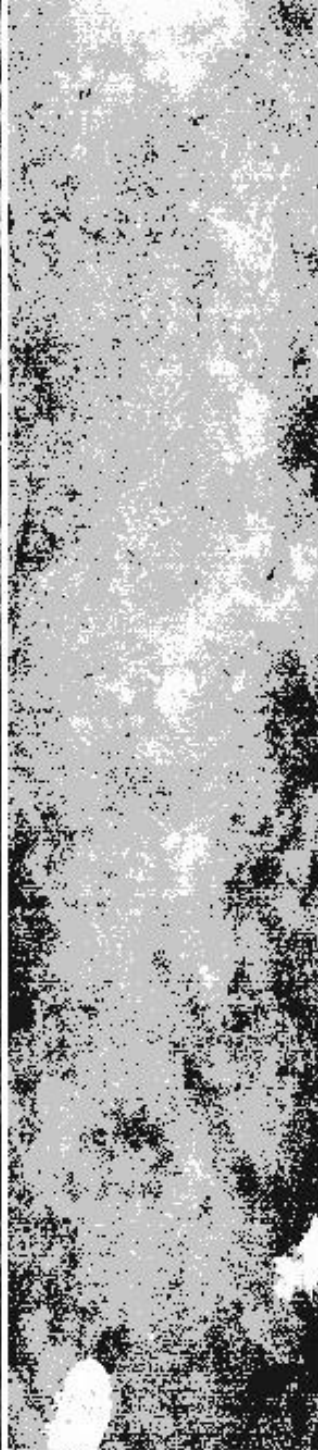
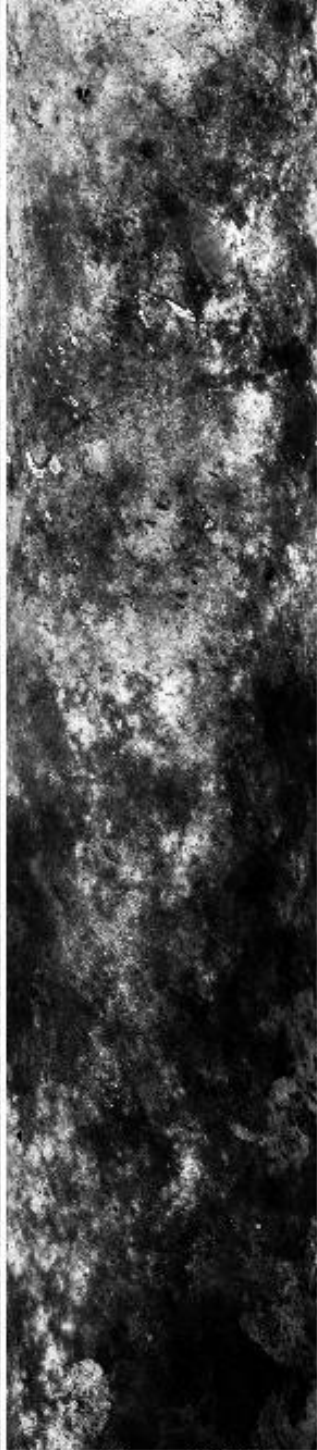
13:32:00

13:34:00

13:34:00

13:36:39

13:36:39



0.66 μm (#3)

1.61 μm (#10)

3.77 μm (#30)

10.94 μm (#45)
reverse scale

RGB (#20,#10,#2)

Aircraft Heading = 112.4°

Solar Zenith = 31.0°

CRS Altitude = 20187 m (MSL)

13:36:38



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

13:36:38

Aircraft Heading = 112.4°

Solar Zenith = 31.0°

GPS Altitude = 20183. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign – 13 Sep 2000

Botswana

Flight #00-175 Track #18

13:36:38

0.66µm (#3)

1.61µm (#10)

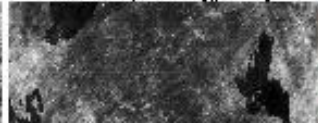
3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

13:36:38

13:37:00



13:37:00

13:38:00



13:38:00

13:41:00



13:41:00

13:41:00



13:43:00



13:45:00



13:47:00



13:49:00



13:41:00

13:43:00

13:45:00

13:47:00

13:49:00

13:51:00



13:53:00



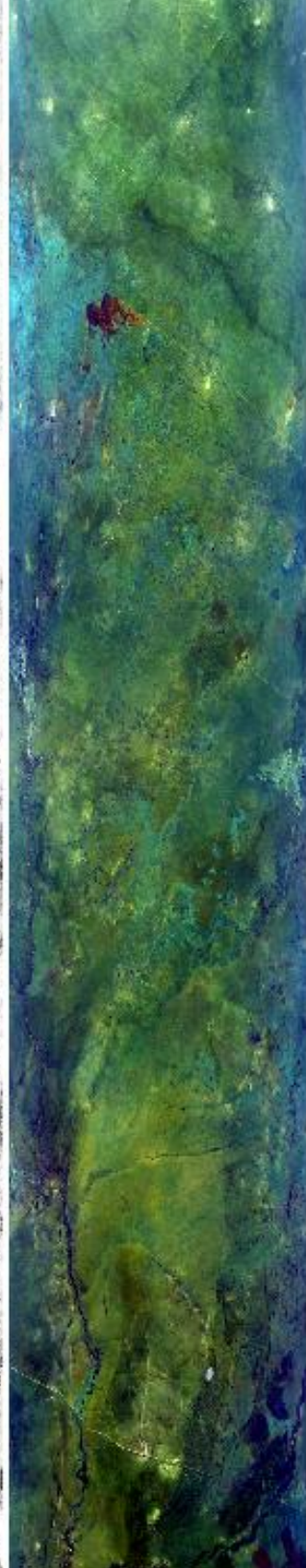
13:55:00



13:57:00



13:59:00



13:51:00

13:53:00

13:55:00

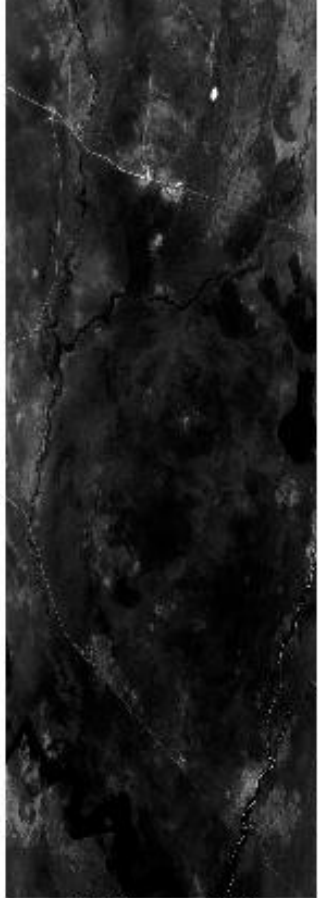
13:57:00

13:59:00

13:59:00

14:01:00

14:03:28



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20,#10,#2)

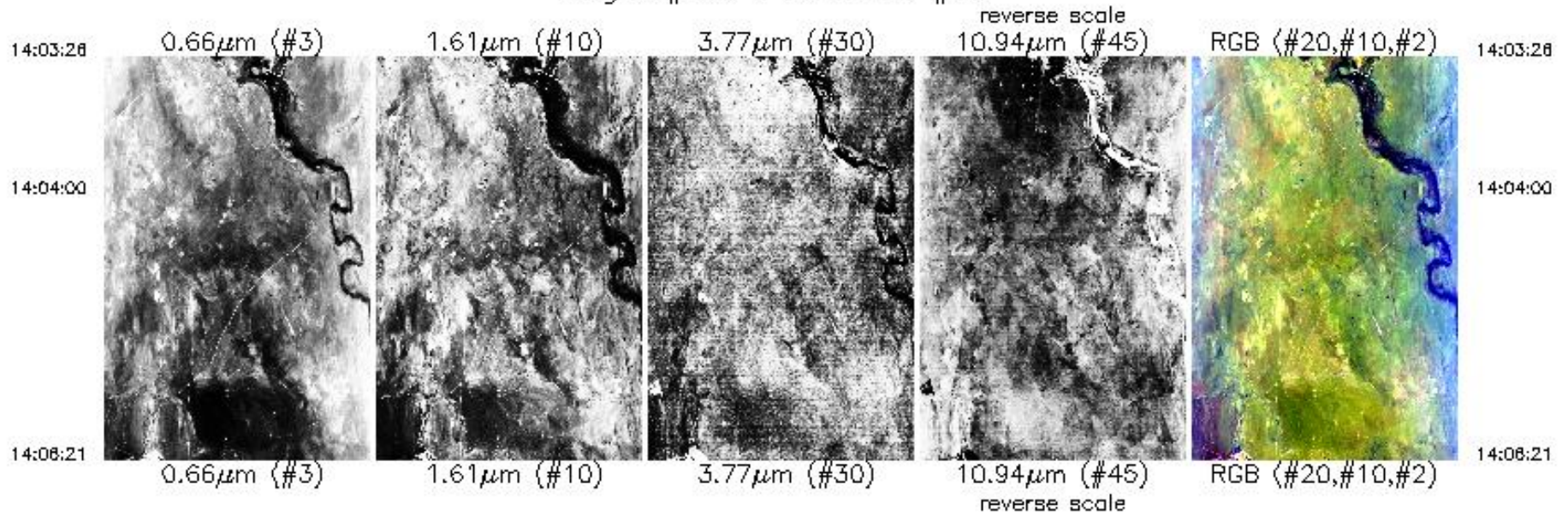
13:59:00

14:01:00

14:03:28

Aircraft Heading = 105.0°
Solar Zenith = 35.5°
GPS Altitude = 20242. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 13 Sep 2000
Botswana
Flight #00-175 Track #19



Aircraft Heading = 101.9°
Solar Zenith = 40.5°
GPS Altitude = 19322. m (MSL)