

SAFARI 2000 MAS Flight 00152

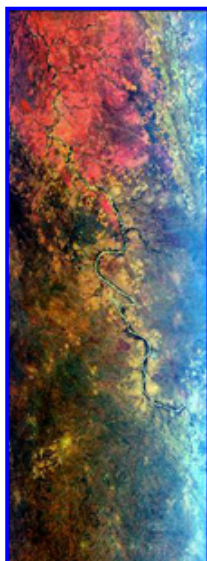
The SAFARI 2000 MAS contains 146 GB of data. Individual HDF files may exceed the size of a CD, and are best written to DVD. You may use this automated interface to order data from selected tracks (flight segments). If you require large portions of this data, we recommend that you contact us by email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

Flight #00-152

RBG Images

[Click Image](#)

Track #01



R: 11.01 microns
G: 2.15 microns
B: 0.46 microns

Track #02

Summary Information

Date: **August 27, 2000**
 ER-2 Flight Number: **00-152**
 Location: **South Africa to Botswana**
 Principal Investigator: **Dr. Michael King (NASA GSFC)**
 Flight Scientist:
 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: **16 processed**
 Scanlines Processed: **102007**
[Solar Azimuth and Zenith Angles](#)

Flight Track Map

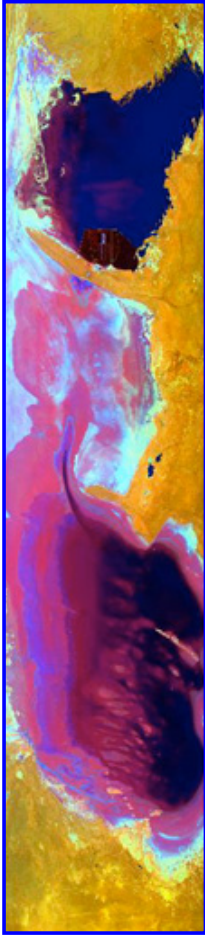


[Click to enlarge](#)

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 (msl)
<input type="checkbox"/>	01	08:13-08:28	310	22.07-20.99	28.48-27.03	5748	18884
<input type="checkbox"/>	02	08:29-08:37	320	20.97-20.22	27.01-26.36	3148	19673
<input type="checkbox"/>	03	08:39-08:55	192	20.25-22.00	26.14-25.75	5955	19839
<input type="checkbox"/>	04	09:01-09:19	14	22.21-20.29	25.71-26.12	6512	19922
<input type="checkbox"/>	05	09:21-09:48	275	20.15-19.90	25.93-22.69	9999	19986
<input type="checkbox"/>	06	09:48-09:54	276	19.90-19.84	22.69-22.05	1981	19975
<input type="checkbox"/>	07	09:55-10:08	6	19.72-18.27	21.94-22.14	4921	20031
<input type="checkbox"/>	08	10:13-10:31	192	18.27-20.35	22.49-22.00	6930	19964
<input type="checkbox"/>	09	10:36-10:56	16	20.42-18.17	22.37-22.86	7737	20064
<input type="checkbox"/>	10	11:01-11:20	190	18.21-20.36	23.23-22.74	7199	20139
<input type="checkbox"/>	11	11:24-11:47	16	20.41-17.96	23.11-23.66	8426	20123
<input type="checkbox"/>	12	11:51-12:18	190	18.03-21.03	23.98-23.35	9999	20169
<input type="checkbox"/>	13	12:18-12:28	192	21.03-22.21	23.35-23.10	3971	20159
<input type="checkbox"/>	14	12:29-12:40	264	22.30-22.39	22.99-21.65	4100	20067
<input type="checkbox"/>	15	12:42-12:59	170	22.53-24.40	21.53-21.98	6387	20111



R: 11.01 microns
G: 2.15 microns
B: 0.46 microns

	16	13:01-13:25	91	24.49-24.27	22.10-25.01	8994	20253
All images in sequence							

ER-2 Flight Log

Author: [Dr. Michael King](#)
Mission Scientist: [Dr. Michael King](#)
ER-2 Pilot: [Ken Broda](#)
Takeoff: [27Aug2000 0000 UTC](#)
Landing: [27Aug2000 0000 UTC](#)
Duration: [06:35:00](#)

Objective:

The objective of this mission was to fly the ER-2 over Francistown en route to the Terra overpass of the Sowa Pan MISR ground site (20°33'S, 26°04'E).

Key Flight Legs:

The ER-2 made two flight legs 208 km in length over the Sowa Pan along the orbital inclination of Terra (192.0°), passing over the ground site at 0845:35 UTC. The ER-2 then flew over the Maun Tower and proceeded across the Okavango Delta, where it turned and made a series of 6 parallel flight lines mapping out the entire delta region. The final flight leg took it once again over the Maun Tower en route to two sites that were characterized in detail during the Kalahari Transect in March (Okwa River Crossing at 22°24'S, 21°deg:43'E and Tsane at 24°09'S, 21°54'E).

The RC-10 camera was turned on for flights over Francistown and Sowa Pan (both flight legs), Maun Tower, the Okwa River Crossing, and Tsane.

The AERONET sites were overflown during this mission:

- Sowa Pan (20°33'S, 26°04'E)
- Maun Tower (19°55'S, 23°36'E)

Pilot Report:

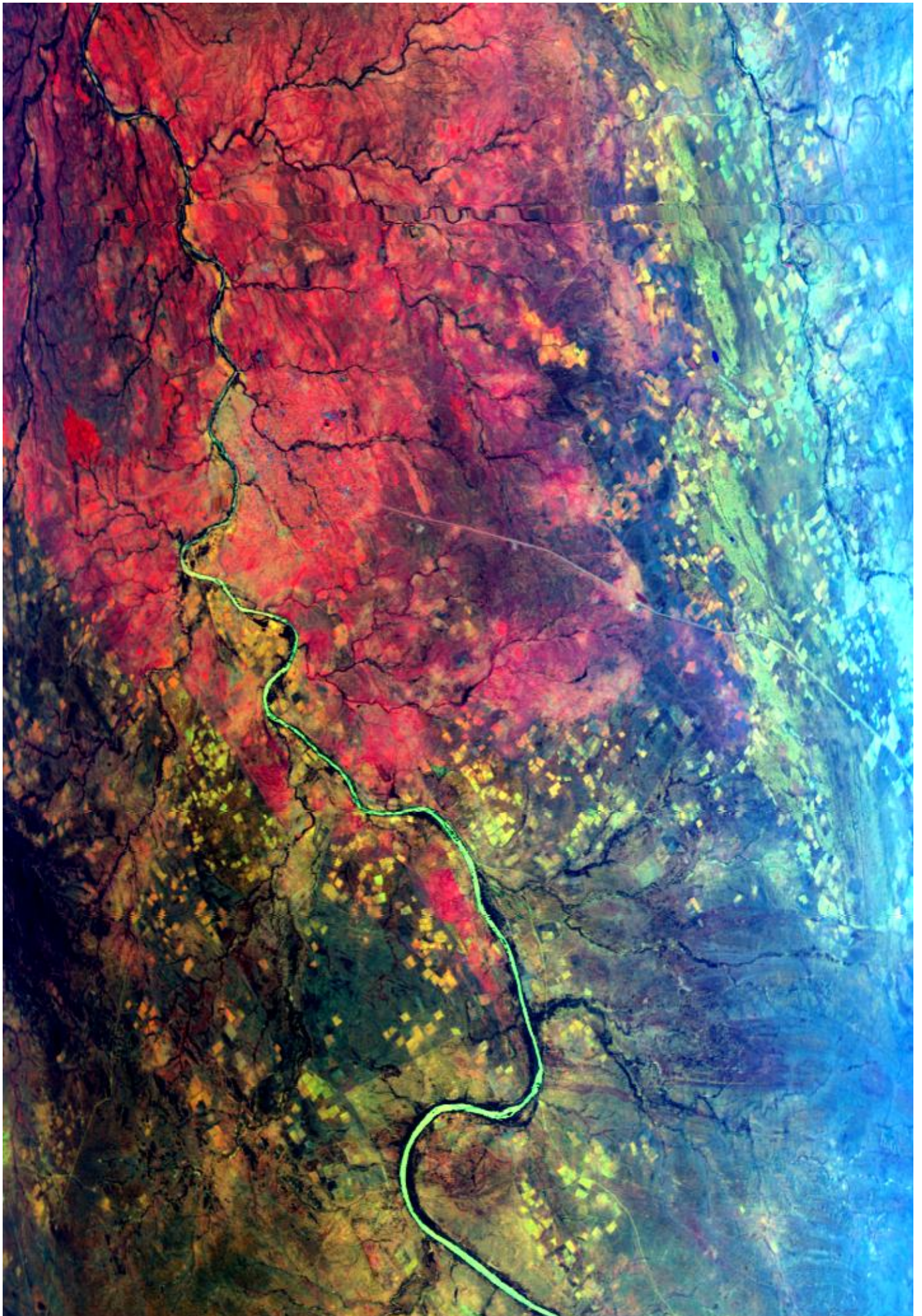
The skies were largely cloud free and the visibility quite clear. The pilot noted some fires and burn scars in and around the Okavanga Delta.

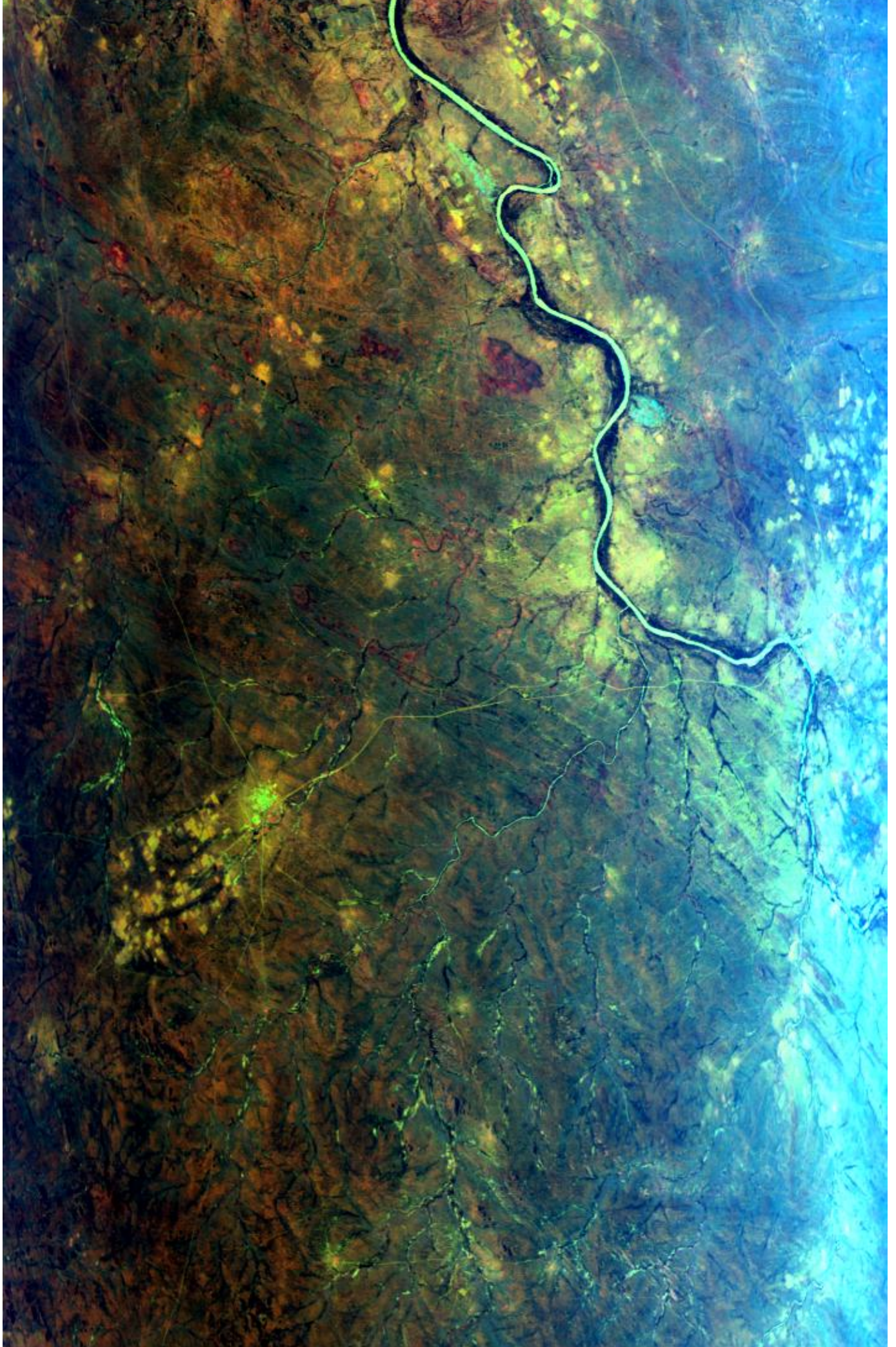
Meteorology:

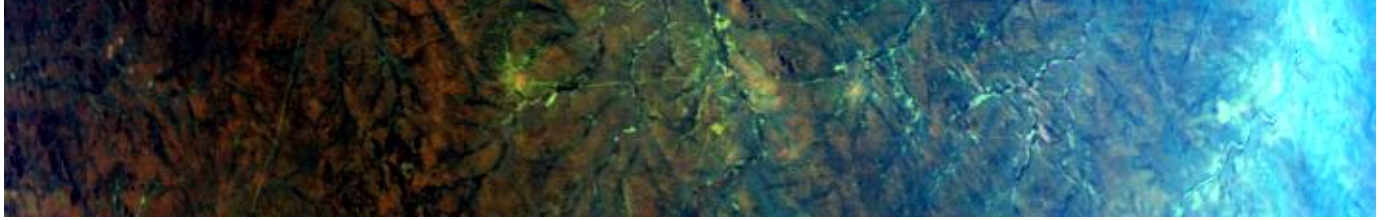
The Atlantic High ridged along the south and southeast coast, inducing southeasterlies and partly cloudy conditions. The Indian Ocean High continued to induce southeasterlies over the lowveld and Mozambique, causing partly cloudy skies over these areas. The well-established high over the interior forced another sunny day over the interior

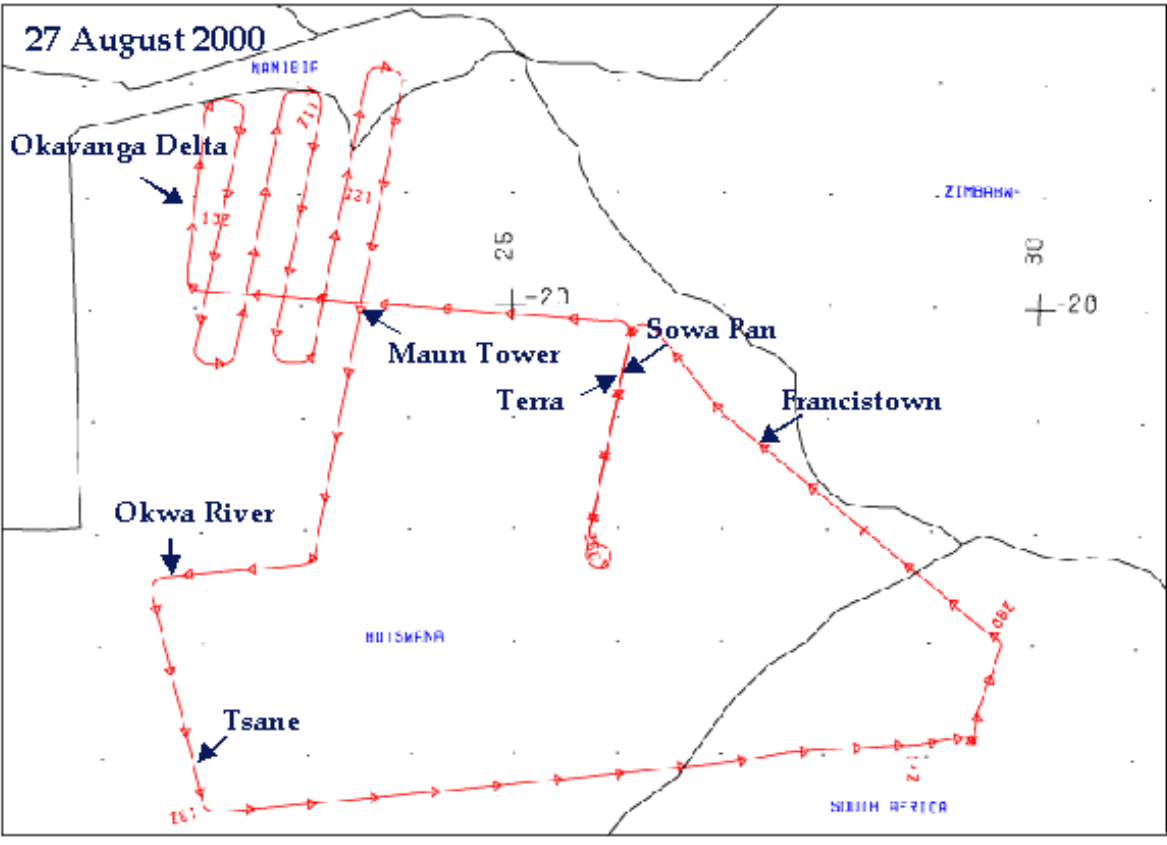
Instrument Status:

- AirMISR (Airborne Multi-angle Imaging Spectroradiometer): Not on plane; being repaired
- CLS (Cloud Lidar System): Lidar worked properly, but navigation data not recorded
- LAS (Leonardo Airborne Simulator): Worked well
- MAS (MODIS Airborne Simulator): Worked well
- MOPITT-A (MOPITT Airborne Simulator): Worked well
- S-HIS (High-resolution Interferometer Sounder): Worked well; first flight in scanning mode
- SSFR (Solar Spectral Flux Radiometer): Worked well









FLIGHT 00-152 27 AUGUST 2000 840 809 SAFAR

50 MAS Configuration for 00-152 27 Aug 2000 Botswana

01	01	16	0	0.036289	0.0000	0.452	0.472	0.493	0.100	1981.92
02	02	16	0	0.039121	0.0000	0.534	0.554	0.577	0.100	1857.88
03	03	16	0	0.026688	0.0000	0.635	0.658	0.689	0.100	1549.55
04	04	16	0	0.031314	0.0000	0.687	0.708	0.731	0.100	1386.41
05	05	16	0	0.023856	0.0000	0.729	0.750	0.773	0.100	1260.07
06	06	16	0	0.024652	0.0000	0.810	0.830	0.855	0.100	1053.65
07	07	16	0	0.024552	0.0000	0.853	0.874	0.895	0.100	962.82
08	08	16	0	0.019697	0.0000	0.893	0.912	0.934	0.100	869.28
09	09	16	0	0.021220	0.0000	0.933	0.954	0.974	0.100	784.92
10	10	16	0	0.003403	0.0000	1.586	1.612	1.640	0.100	244.16
11	11	16	0	0.006295	0.0000	1.642	1.668	1.695	0.010	227.32
12	12	16	0	0.002915	0.0000	1.698	1.722	1.749	0.010	201.29
13	13	16	0	0.002882	0.0000	1.751	1.776	1.801	0.010	176.56
14	14	16	0	0.002968	0.0000	1.805	1.830	1.855	0.010	156.28
15	15	16	0	0.002838	0.0000	1.855	1.880	1.906	0.010	139.66
16	16	16	0	0.002696	0.0000	1.906	1.932	1.956	0.100	131.21
17	17	16	0	0.002443	0.0000	1.956	1.982	2.006	0.010	122.76
18	18	16	0	0.002390	0.0000	2.006	2.032	2.057	0.010	109.78
19	19	16	0	0.002310	0.0000	2.058	2.082	2.107	0.010	98.67
20	20	16	0	0.002349	0.0000	2.107	2.132	2.157	0.010	86.28
21	21	16	0	0.004946	0.0000	2.156	2.180	2.205	0.010	76.85
22	22	16	0	0.002691	0.0000	2.205	2.230	2.255	0.010	73.57
23	23	16	0	0.002766	0.0000	2.255	2.280	2.305	0.010	68.38
24	24	16	0	0.002602	0.0000	2.306	2.330	2.354	0.010	58.53
25	25	16	0	0.002546	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/er2/00-152
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 27 Aug 2000
 NASA FLIGHT NUMBER 00-152

START OF FLIGHT LINE					END OF FLIGHT				
LINE	FLIGHT DATA								
LINE	TIME	LAT	LON	SOLAR	TIME	LAT	LON	SOLAR	TIME
	HH:MM:SS	DEG	DEG	ZEN	HH:MM:SS	DEG	DEG	ZEN	HH:MM:SS
	SCAN	HEAD	ALT	AZIM	SCAN	HEAD	ALT	AZIM	SCAN
	LINES	DEG	M (GPS)	DEG	LINES	DEG	M (GPS)	DEG	LINES
1	08:13:32	-22.073	28.480	42.5	44.2	08:28:55	-20.986	27.027	40.1
	42.3	5748	309.8	18884					
2	08:29:08	-20.971	27.008	40.1	42.3	08:37:34	-20.224	26.362	38.6
	41.1	3148	319.8	19673					
3	08:39:51	-20.246	26.139	38.4	40.7	08:55:47	-22.003	25.748	37.8
	34.6	5955	191.5	19839					
4	09:01:59	-22.212	25.707	37.2	32.4	09:19:25	-20.290	26.124	33.3
	26.5	6512	14.0	19922					
5	09:21:56	-20.149	25.927	33.0	25.9	09:48:42	-19.901	22.695	31.5
	20.1	9999	274.5	19986					
6	09:48:42	-19.901	22.695	31.5	20.1	09:54:00	-19.844	22.049	31.2
	18.9	1981	276.3	19975					
7	09:55:36	-19.721	21.939	31.0	18.5	10:08:46	-18.269	22.140	28.7
	12.5	4921	6.2	20031					
8	10:13:09	-18.271	22.493	28.5	9.5	10:31:42	-20.353	22.001	30.2
	0.9	6930	192.2	19964					
9	10:36:07	-20.415	22.373	30.3	358.0	10:56:50	-18.165	22.865	28.8
	346.2	7737	16.2	20064					
10	11:01:07	-18.212	23.228	29.2	343.4	11:20:23	-20.356	22.741	32.6
	336.7	7199	190.0	20139					
11	11:24:44	-20.413	23.113	33.2	334.3	11:47:17	-17.960	23.655	34.1
	322.9	8426	15.8	20123					
12	11:51:17	-18.034	23.981	35.0	321.1	12:18:03	-21.034	23.355	41.0

316.1	9999	190.0	20169						
13	12:18:03	-21.035	23.355	41.0	316.1	12:28:41	-22.210	23.103	43.4
314.4	3971	191.6	20159						
14	12:29:59	-22.303	22.991	43.6	314.2	12:40:58	-22.390	21.650	44.6
312.8	4100	263.9	20067						
15	12:42:45	-22.534	21.533	44.9	312.6	12:59:51	-24.404	21.975	49.4
309.4	6387	170.4	20111						
16	13:01:16	-24.490	22.100	49.8	309.0	13:25:20	-24.273	25.009	56.3
301.6	8994	91.0	20253						

NUMBER OF FILES FOR THIS FLIGHT = 16
 TOTAL NUMBER OF SCAN LINES = 102007
 DATE THESE FILES WERE PROCESSED = 25-Sep-2002
 DATE THIS LIST WAS CREATED = Thu Sep 26

11:15:25 PDT 2002

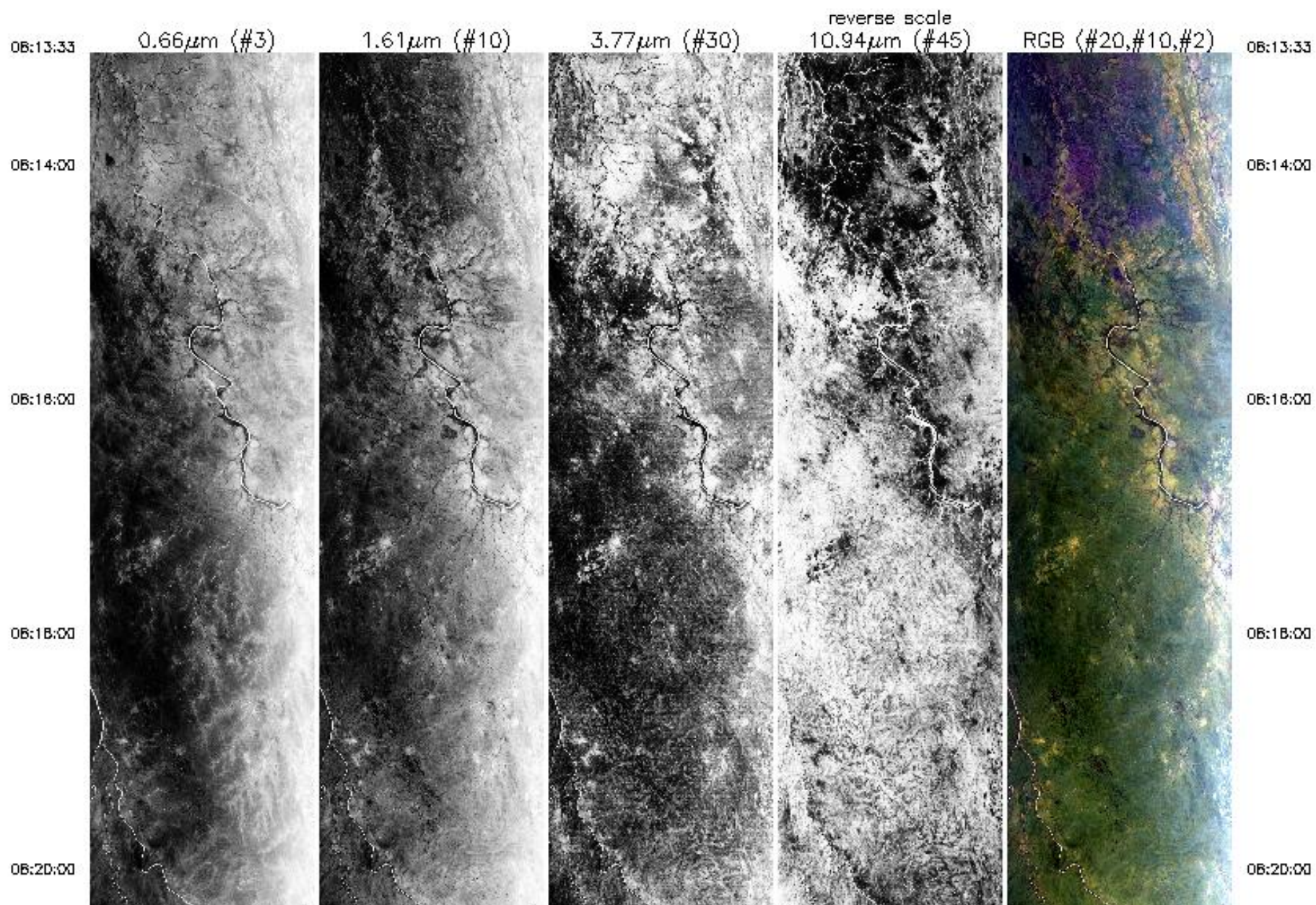
GRANULE VERSION = 2

GLOBAL ATTRIBUTES

Attribute Name	Description
-----	-----
CreationDate	25-Sep-2002 23:30:05
AircraftPlatform	NASA ER-2 (809)
NavFormatCode	Format (A-1)
LocationCode	Inertial (INU)
AltitudeCode	Inertial (INU)
NavDataSource	ER2 navigation recorder
NavDataPath	/nav/2000/er2/00-152
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	00-152
FlightDate	27 Aug 2000

SiteLineRun	void
GeographicArea	Botswana
SRF_FTP	ftp://asapdata/mas/srf/Oct_00/
SRF_dataset	/rarray/calibrat/mas/srf/Oct_00/
FlightLineNumber	1
TotalFlightLines	16
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, RC-10
Principal_Investigator	King
lat_UL	-21.95583
lon_UL	28.58087
lat_UR	-22.18918
lon_UR	28.37858
lat_LL	-20.86251
lon_LL	27.13841
lat_LR	-21.10665
lon_LR	26.91305
begin_date	20000826 081333
end_date	20000826 082856
RunTime	401,390 ms, or 69 ms/scanline
CompletionDate	25-Sep-2002 23:41:03
producer_granule_id	
MASL1B_00152_01_20000826_0813_0828_V02.hdf	

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 27 Aug 2000
Botswana
Flight #00-152 Track #1



06:20:00

06:22:00

06:24:00

06:26:00

06:28:00

06:28:58



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.91 μm (#45)



PCB (#20 #10 #2)

06:20:00

06:22:00

06:24:00

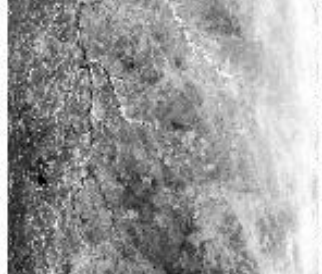
06:26:00

06:28:00

06:28:58

06:28:00

06:28:58



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)

reverse scale



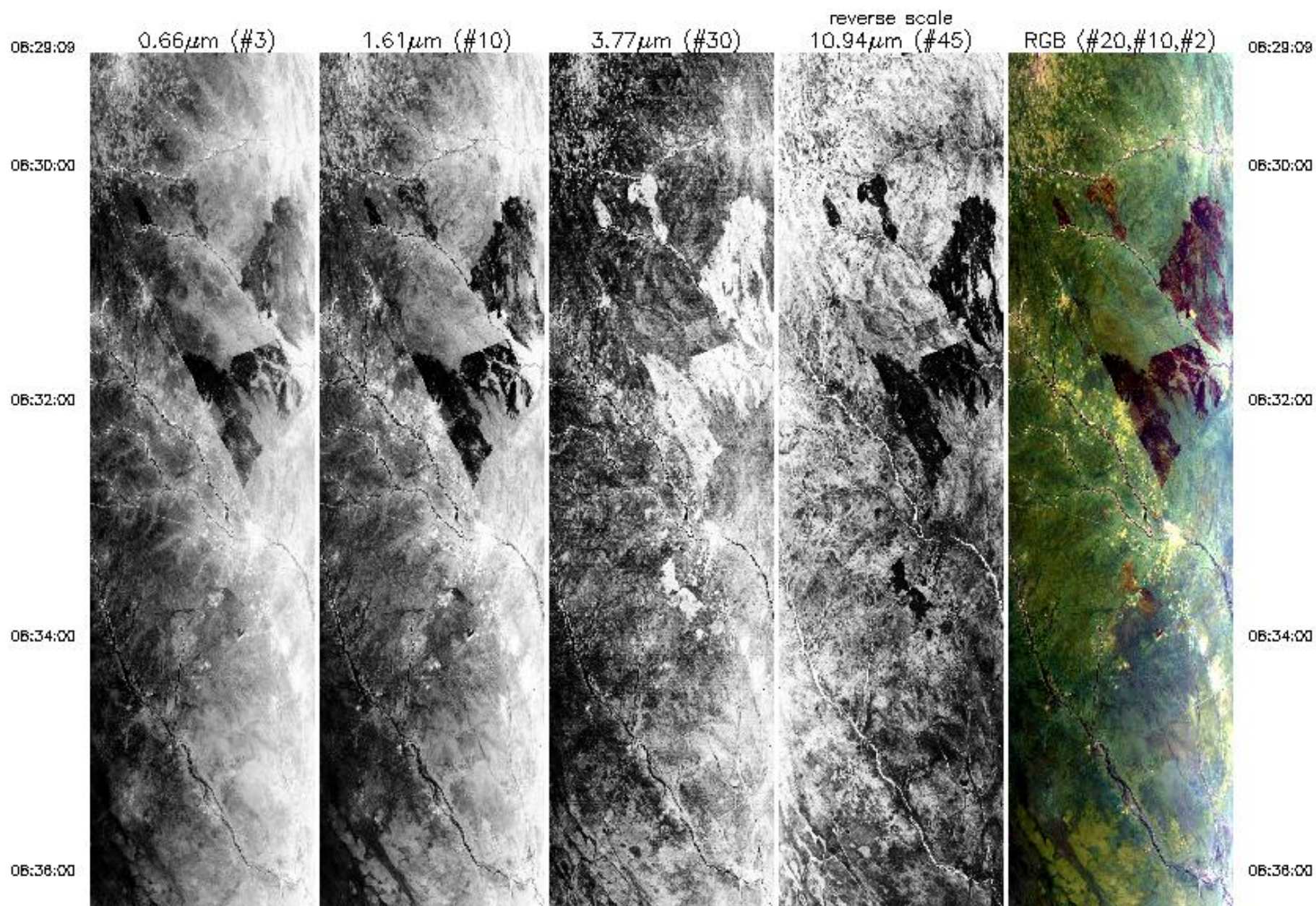
RGB (#20,#10,#2)

06:28:00

06:28:58

Upper Left Lat, Lon = -22.0° , 28.6°
Lower Right Lat, Lon = -21.1° , 26.9°
Aircraft Heading = 308.8°
Solar Zenith = 42.3°
GPS Altitude = 18977. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #2



06:36:00

06:37:34



0.66 μ m (#3)



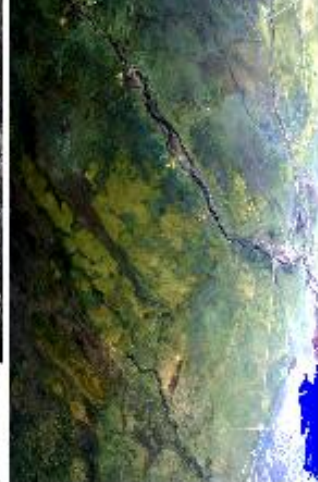
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



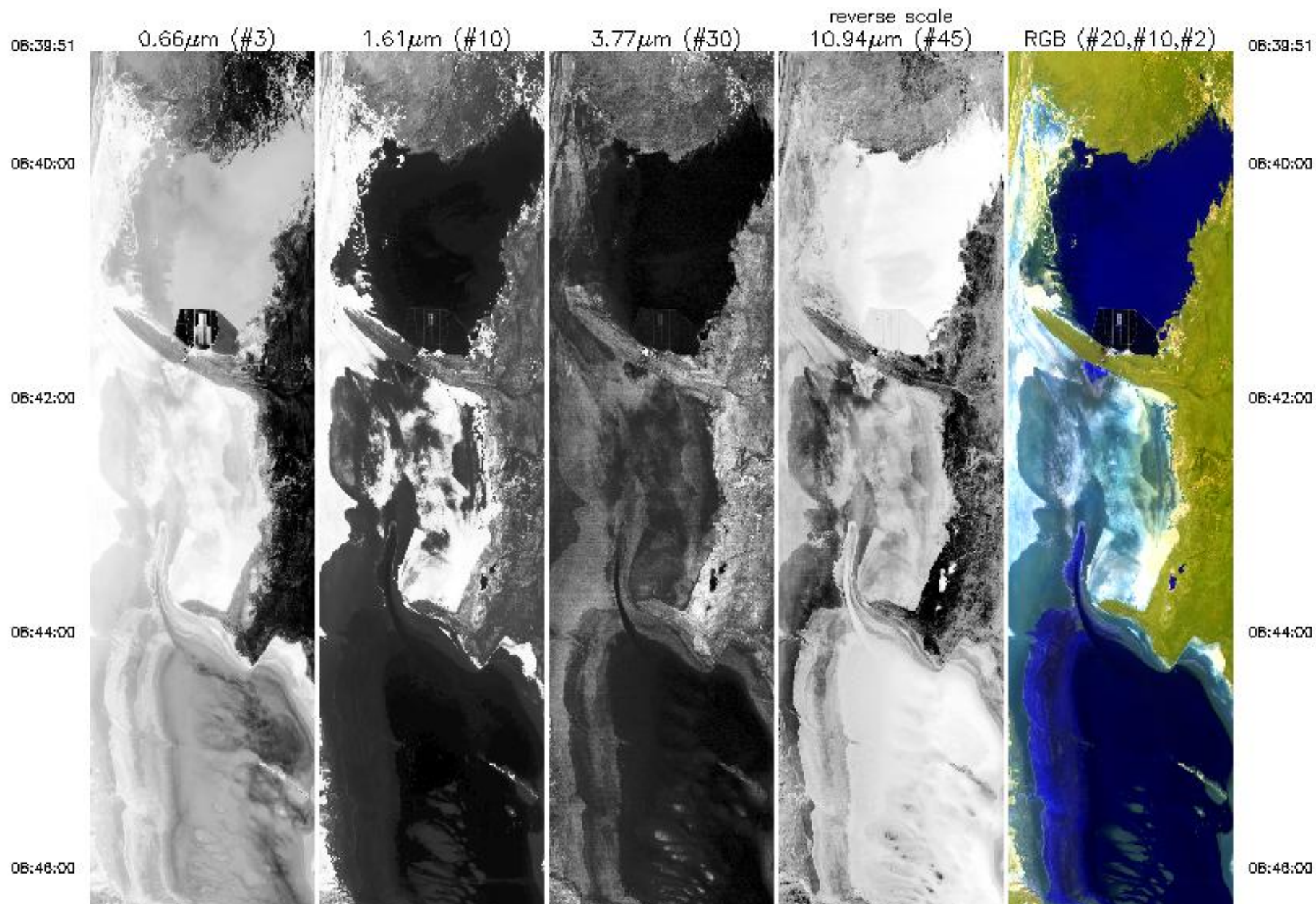
RGB (#20,#10,#2)

06:36:00

06:37:34

Upper Left Lat, Lon = -20.9°, 27.1°
Lower Right Lat, Lon = -20.3°, 26.2°
Aircraft Heading = 317.4°
Solar Zenith = 39.9°
GPS Altitude = 19679. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #3



06:46:00



06:46:00



06:50:00



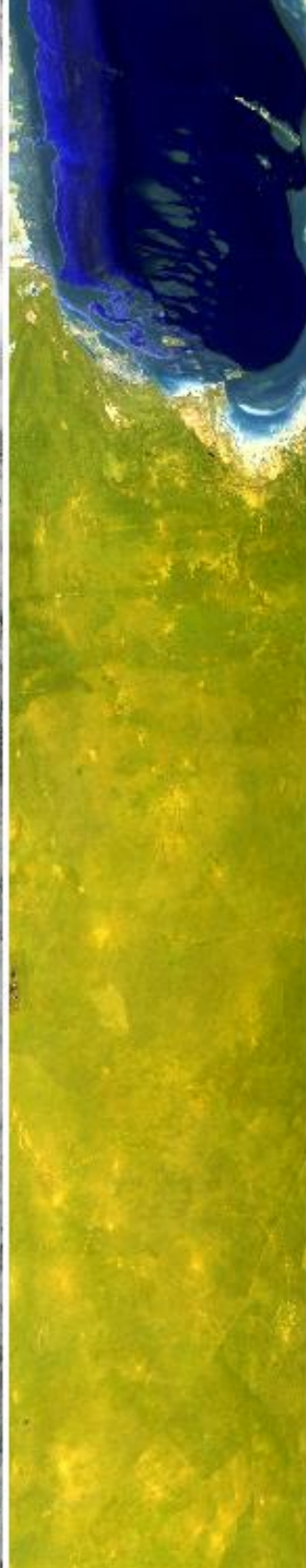
06:52:00



06:54:00



06:46:00



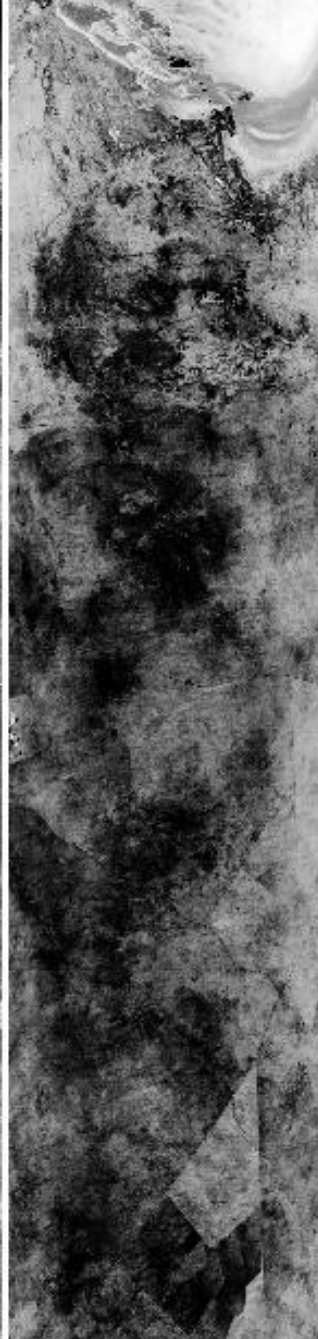
06:46:00



06:50:00



06:52:00



06:54:00



06:54:00



0.66 μ m (#3)



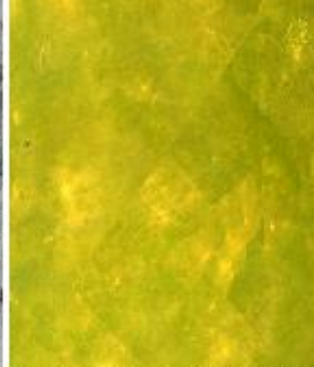
1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

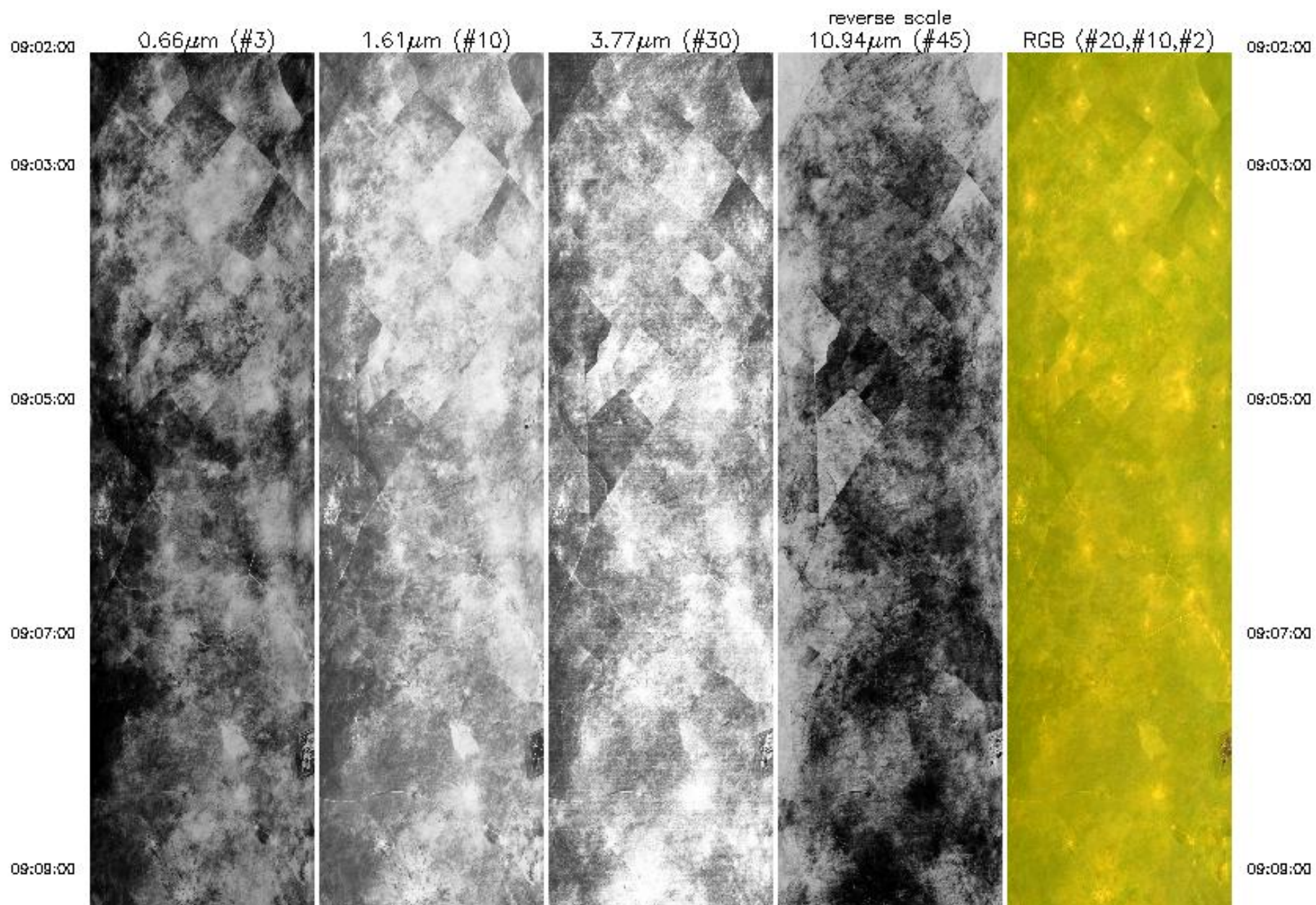
06:54:00

06:55:48

06:55:48

Upper Left Lat, Lon = -20.2° , 26.0°
Lower Right Lat, Lon = -22.0° , 25.9°
Aircraft Heading = 190.8°
Solar Zenith = 38.5°
GPS Altitude = 19858. m (MSL)

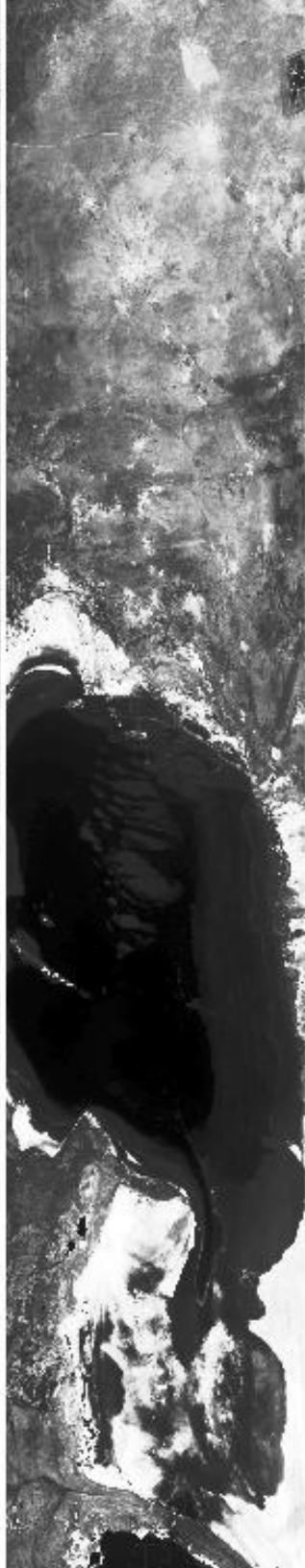
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #4



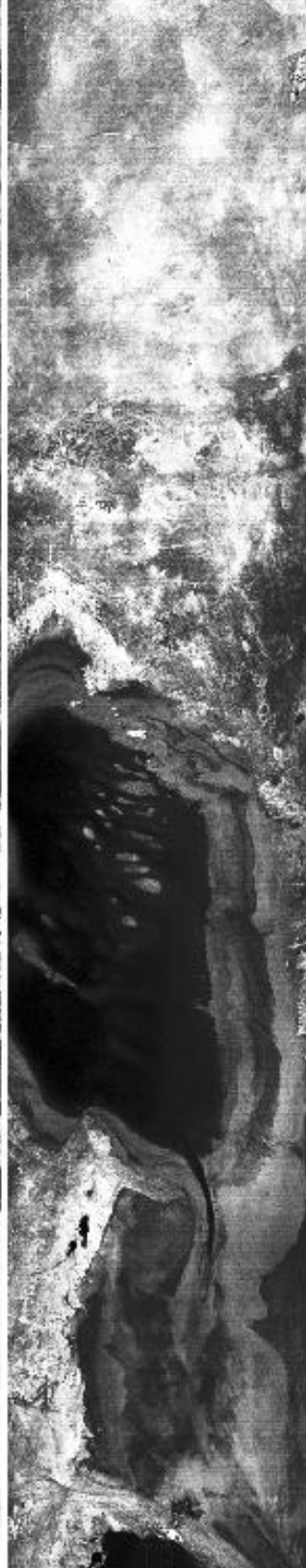
09:09:00



09:11:00



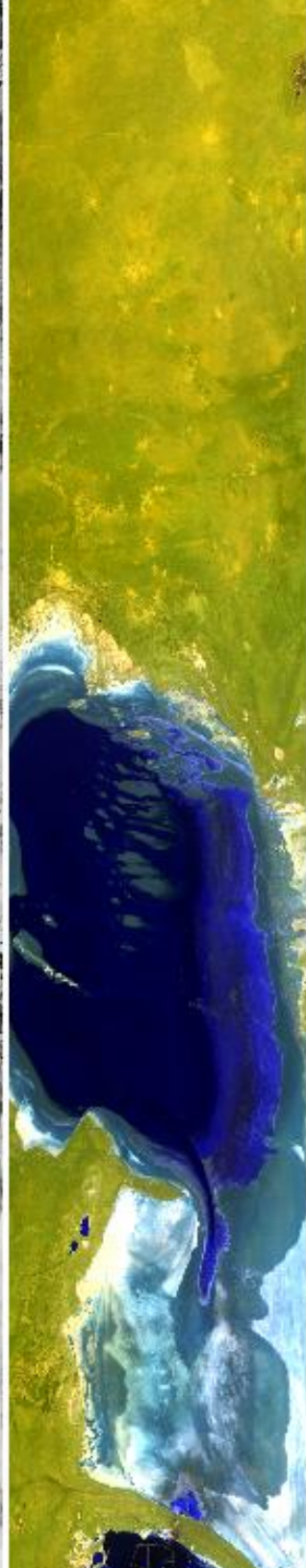
09:13:00



09:15:00



09:17:00



09:09:00

09:11:00

09:13:00

09:15:00

09:17:00

09:17:00

09:18:00

09:18:28



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)

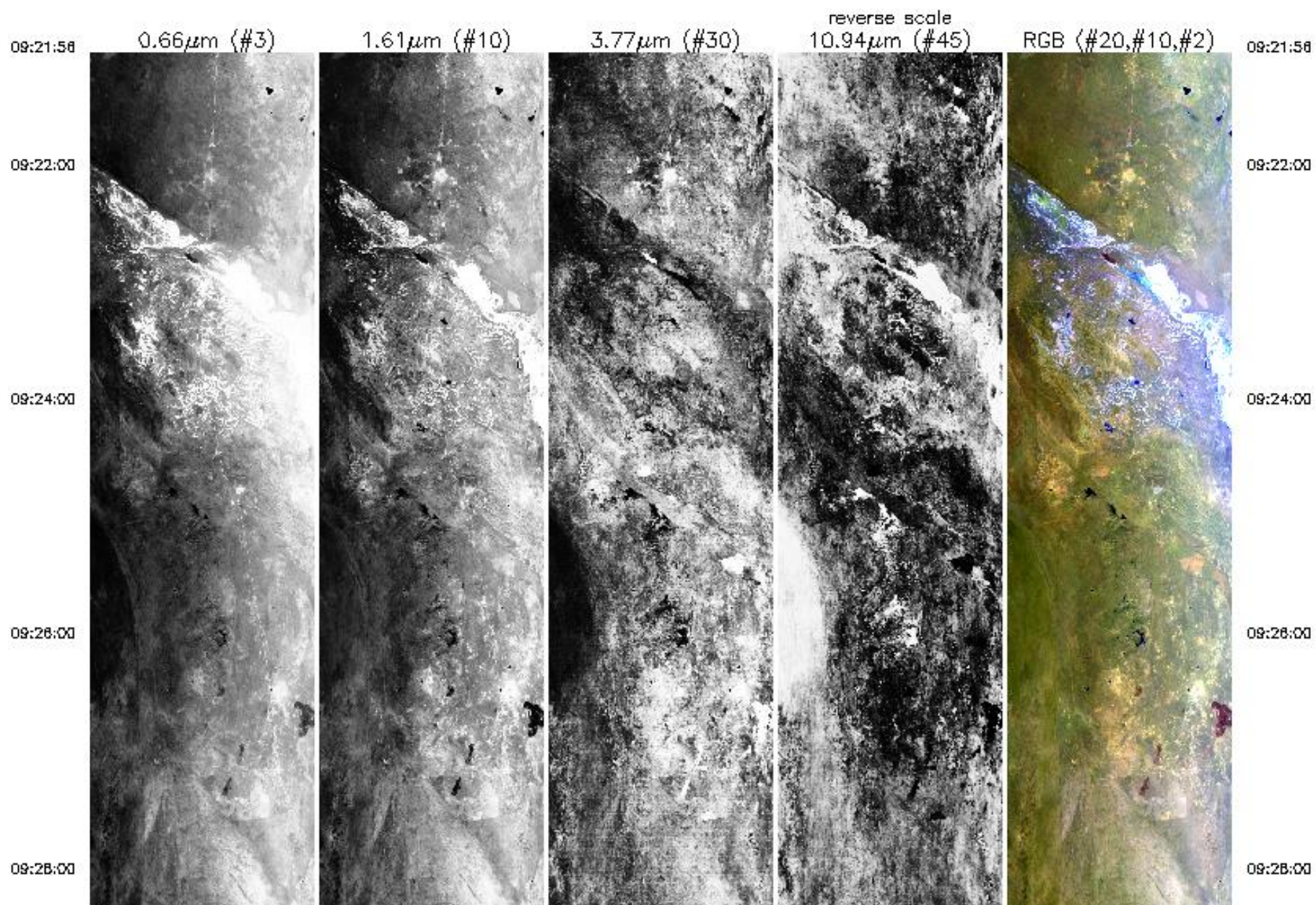
09:17:00

09:18:00

09:18:28

Upper Left Lat, Lon = -22.2°, 25.9°
 Lower Right Lat, Lon = -20.2°, 26.0°
 Aircraft Heading = 13.1°
 Solar Zenith = 37.1°
 GPS Altitude = 20007. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #5



09:28:00

09:30:00

09:32:00

09:34:00

09:36:00



09:28:00

09:30:00

09:32:00

09:34:00

09:36:00

09:36:00

09:36:00

09:40:00

09:42:00

09:44:00



09:36:00

09:36:00

09:40:00

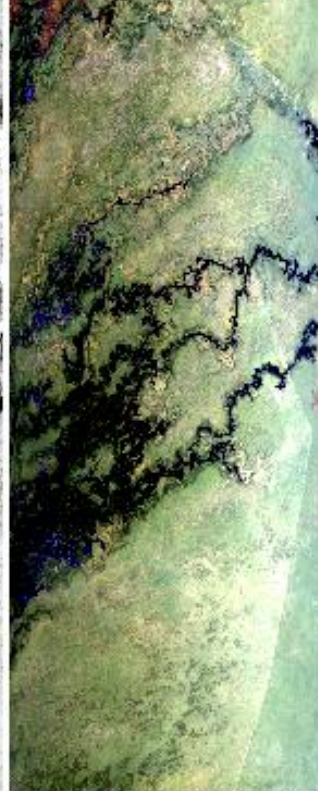
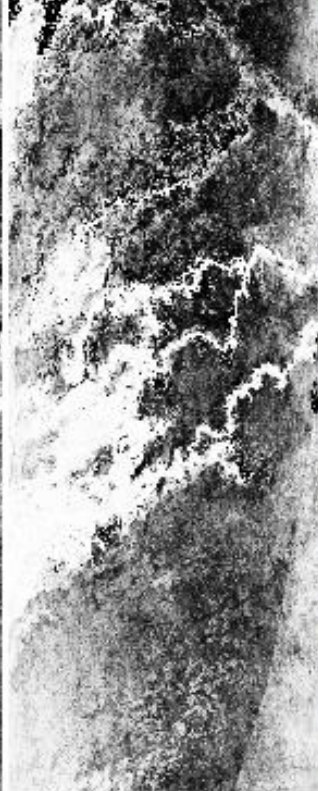
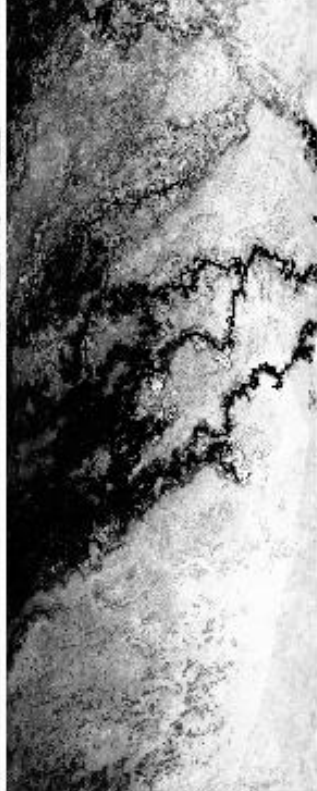
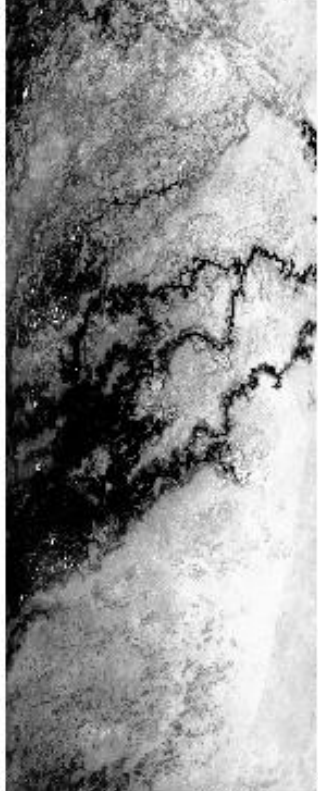
09:42:00

09:44:00

09:44:00

09:48:00

09:48:42



09:44:00

09:48:00

09:48:42

0.66µm (#3)

1.61µm (#10)

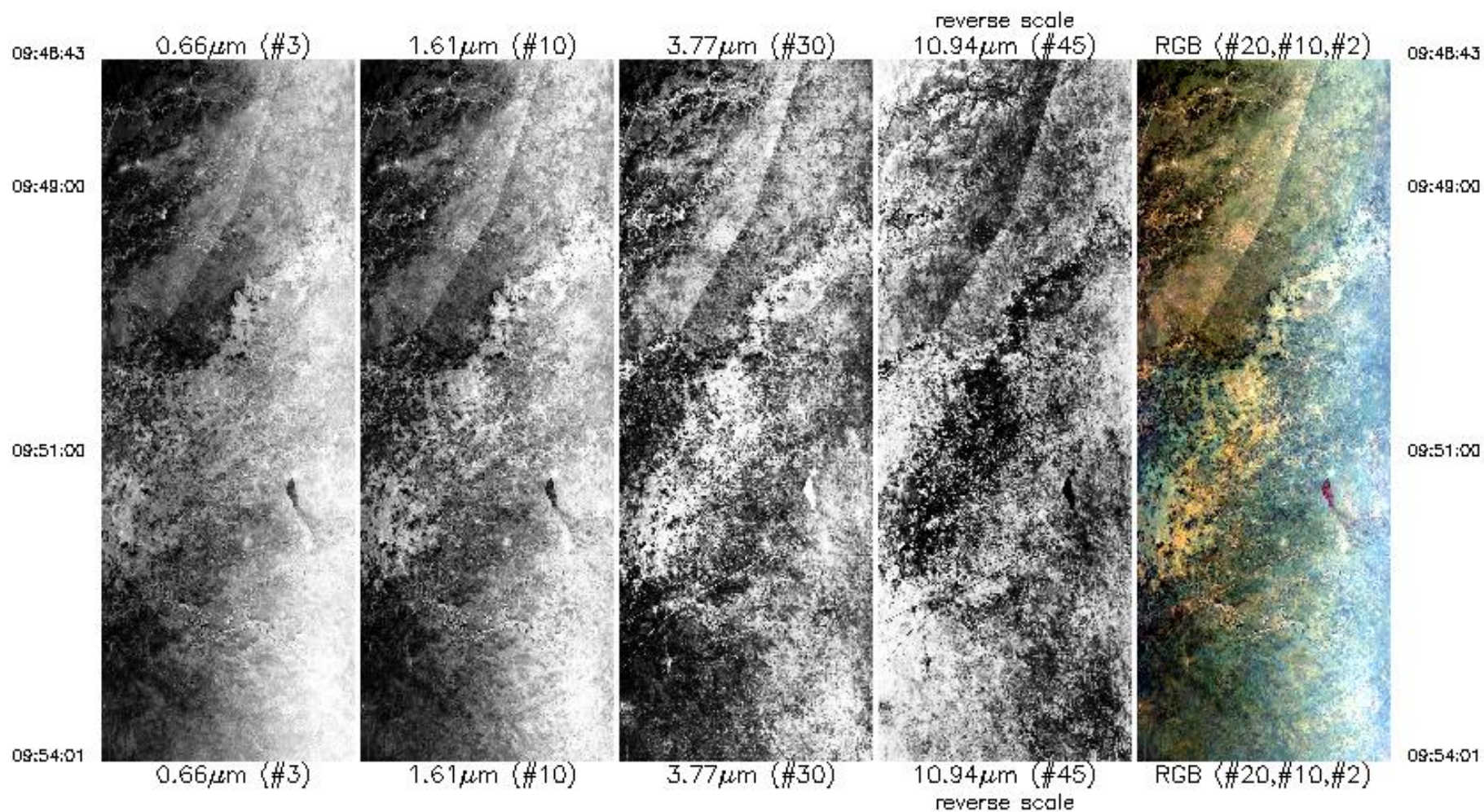
3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -20.0° , 25.9°
 Lower Right Lat, Lon = -20.1° , 22.7°
 Aircraft Heading = 272.9°
 Solar Zenith = 32.9°
 GPS Altitude = 20044. m (MSL)

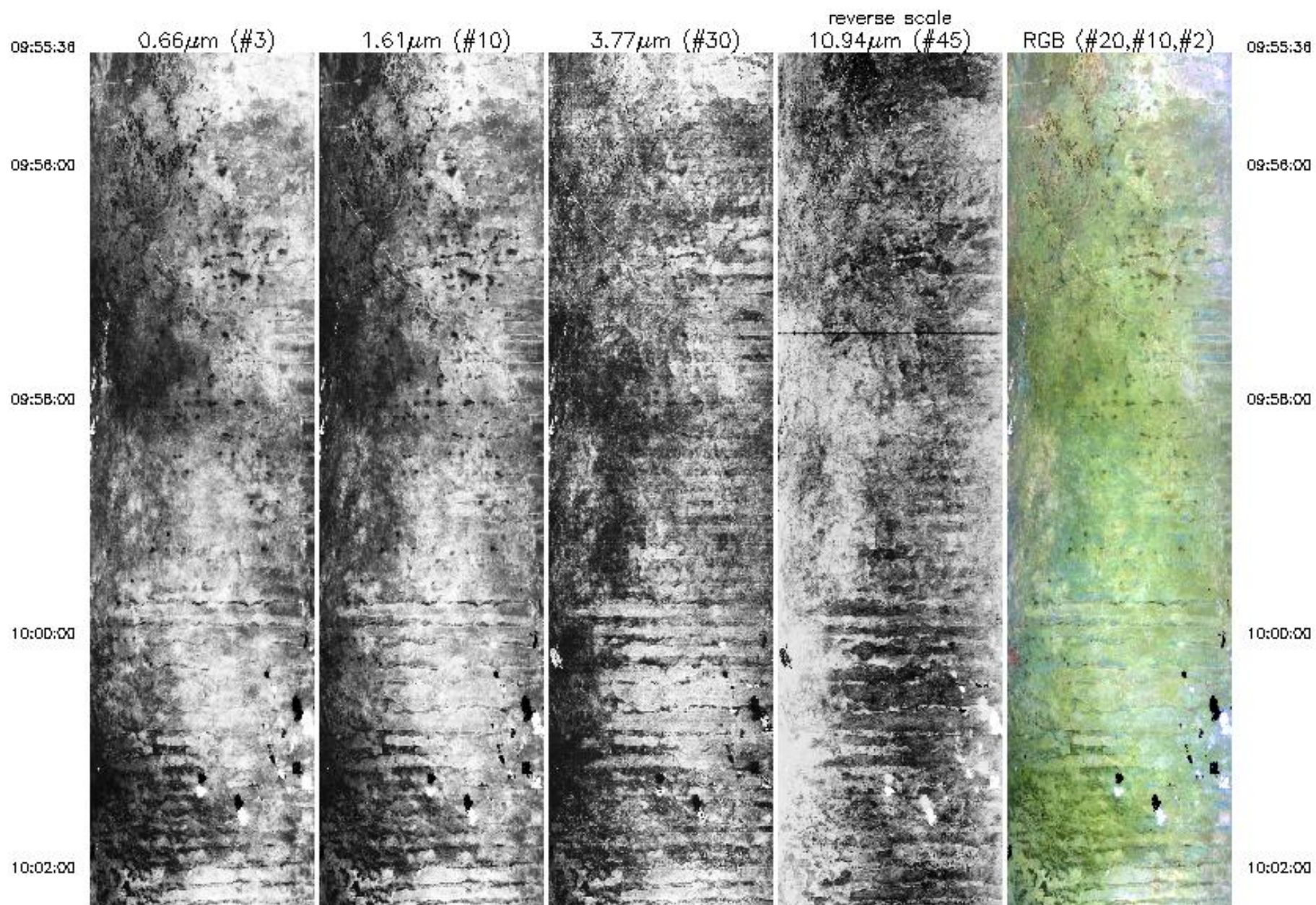
MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 27 Aug 2000
 Botswana
 Flight #00-152 Track #6



Upper Left Lat, Lon = -19.7°, 22.7°
 Lower Right Lat, Lon = -20.0°, 22.0°
 Aircraft Heading = 276.2°
 Solar Zenith = 31.3°
 GPS Altitude = 19968. m (MSL)

Upper Left Lat, Lon = -19.7° , 22.7°
Lower Right Lat, Lon = -20.0° , 22.0°
Aircraft Heading = 276.2°
Solar Zenith = 31.3°
GPS Altitude = 19968. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #7





0.66 μm (#3)

1.61 μm (#10)

3.77 μm (#30)

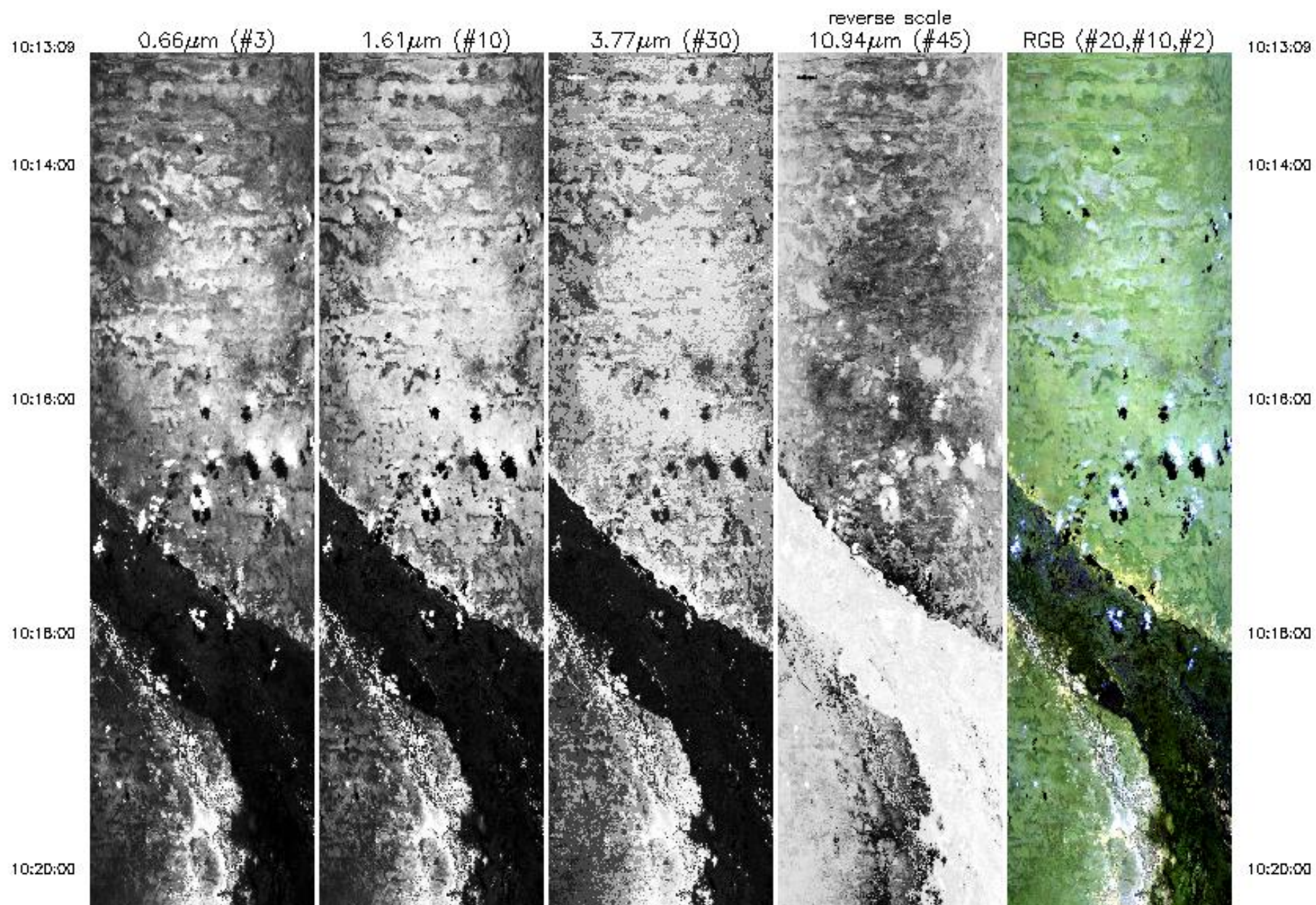
10.94 μm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -19.7° , 22.1°
 Lower Right Lat, Lon = -18.2° , 22.0°
 Aircraft Heading = 2.3°
 Solar Zenith = 31.0°
 GPS Altitude = 20019. m (MSL)

Upper Left Lat, Lon = -19.7° , 22.1°
Lower Right Lat, Lon = -18.2° , 22.0°
Aircraft Heading = 2.3°
Solar Zenith = 31.0°
GPS Altitude = 20019. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #8



10:20:00

10:22:00

10:24:00

10:26:00

10:28:00



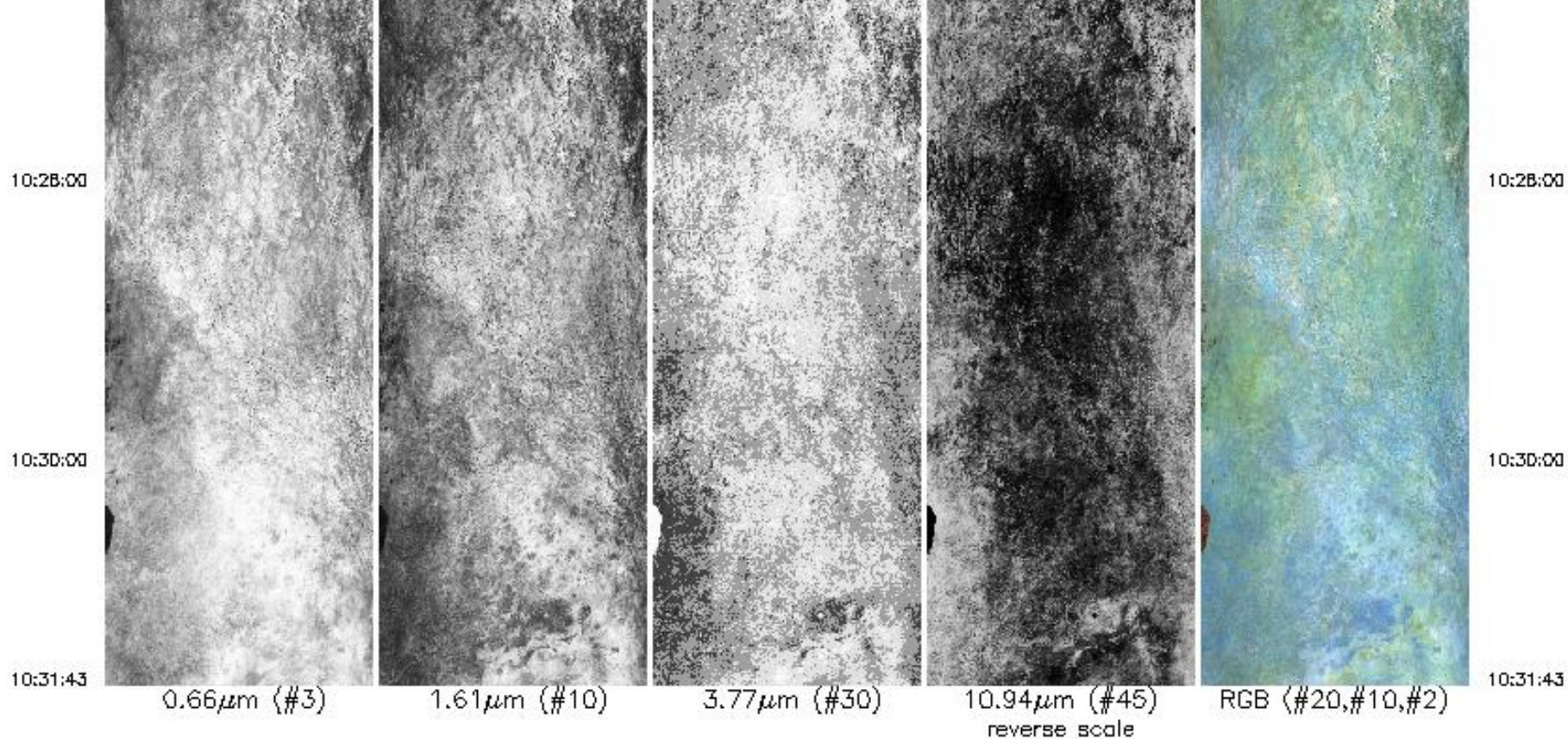
10:20:00

10:22:00

10:24:00

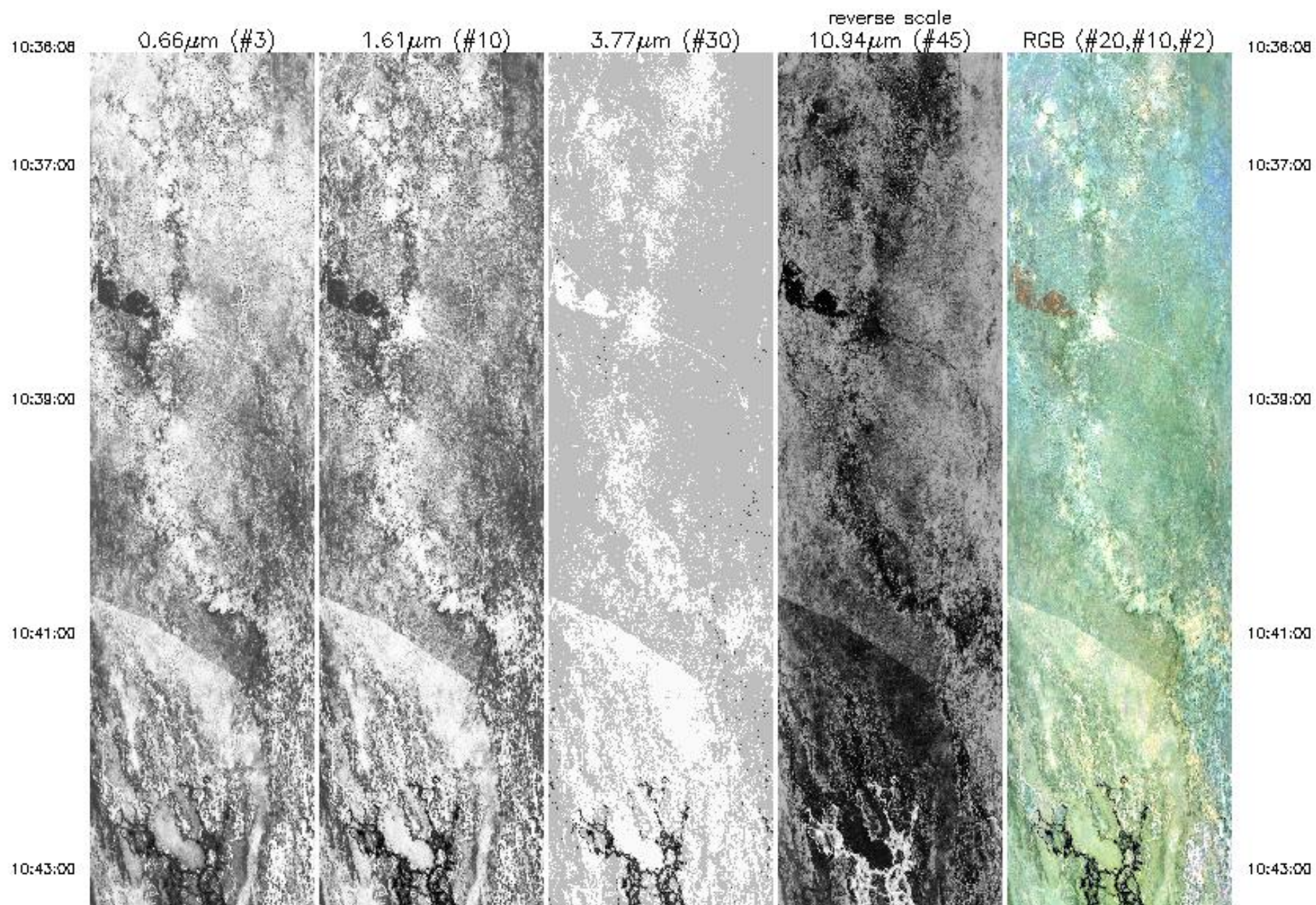
10:26:00

10:28:00

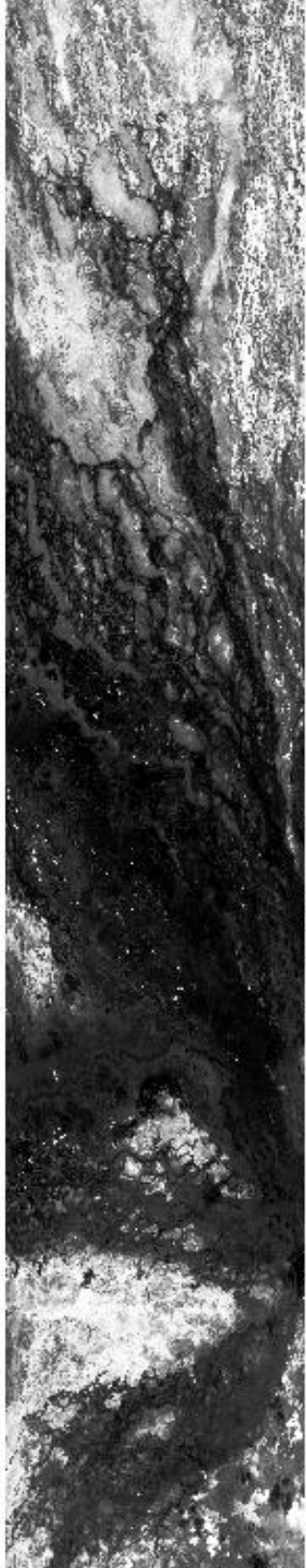


Upper Left Lat, Lon = -18.2° , 22.3°
 Lower Right Lat, Lon = -20.4° , 22.2°
 Aircraft Heading = 191.6°
 Solar Zenith = 28.5°
 GPS Altitude = 20013. m (MSL)

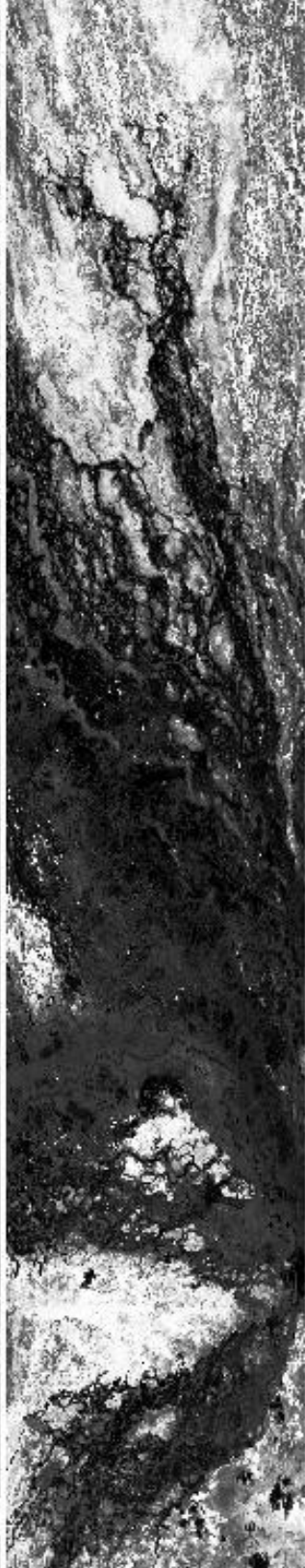
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #9



10:43:00



10:45:00



10:47:00



10:48:00



10:51:00



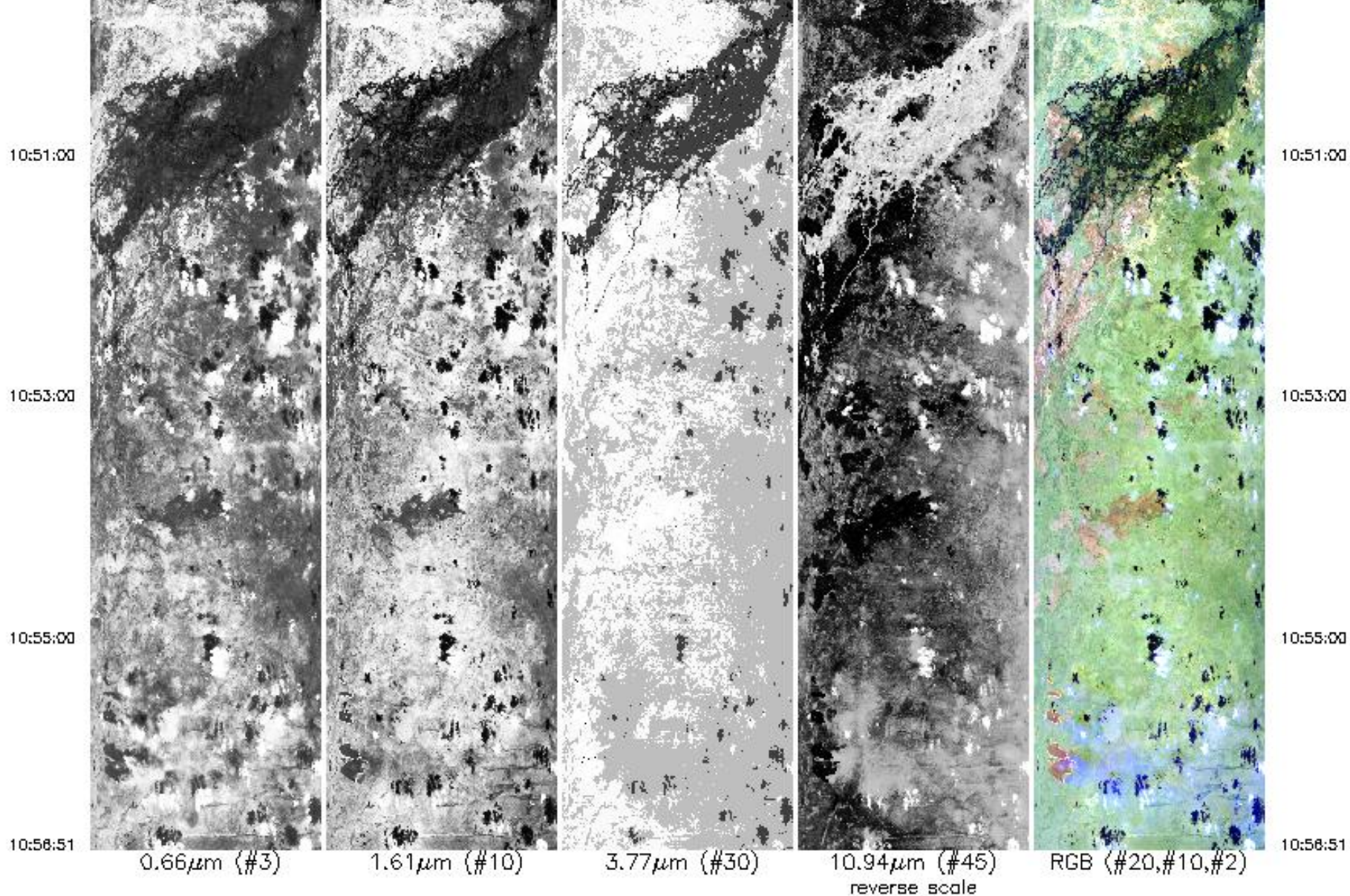
10:43:00

10:45:00

10:47:00

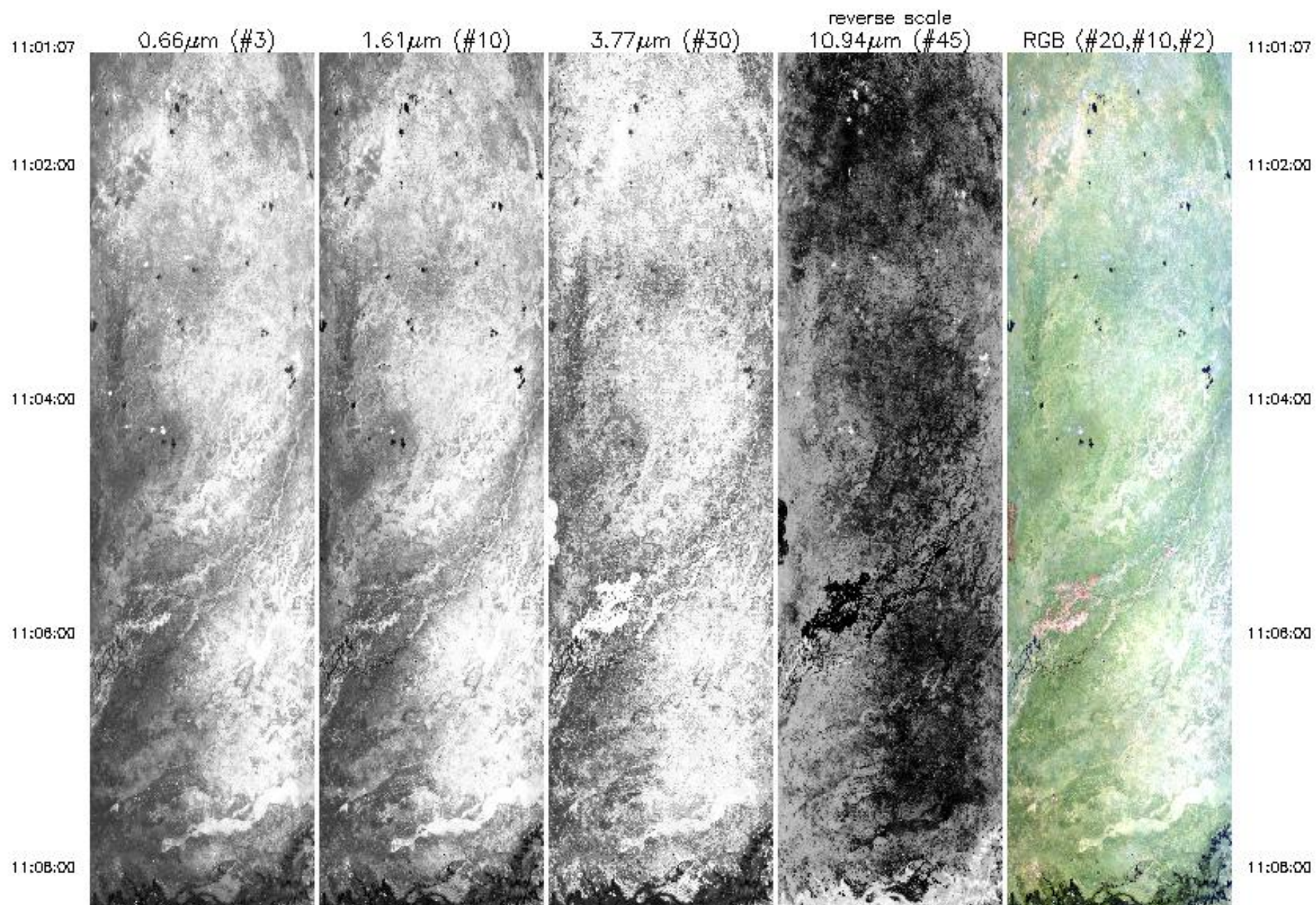
10:48:00

10:51:00



Upper Left Lat, Lon = -20.5° , 22.5°
 Lower Right Lat, Lon = -18.1° , 22.7°
 Aircraft Heading = 20.3°
 Solar Zenith = 30.3°
 GPS Altitude = 20078. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #10



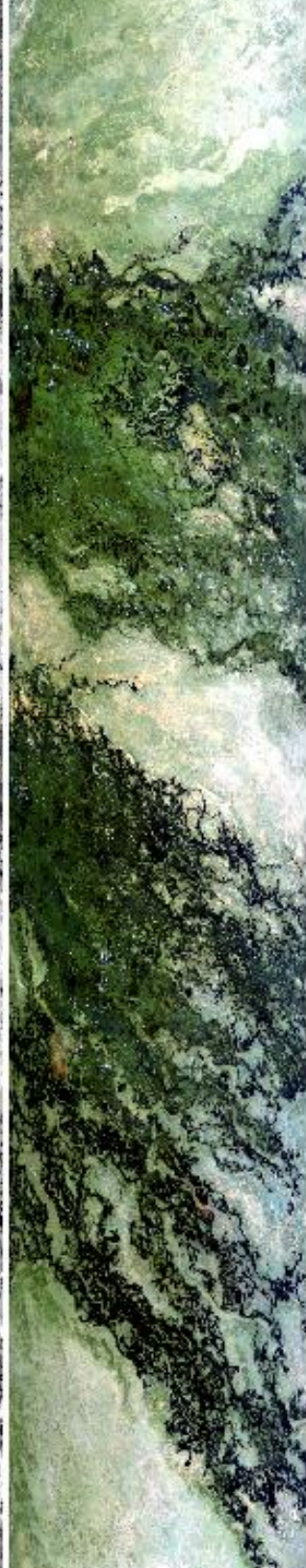
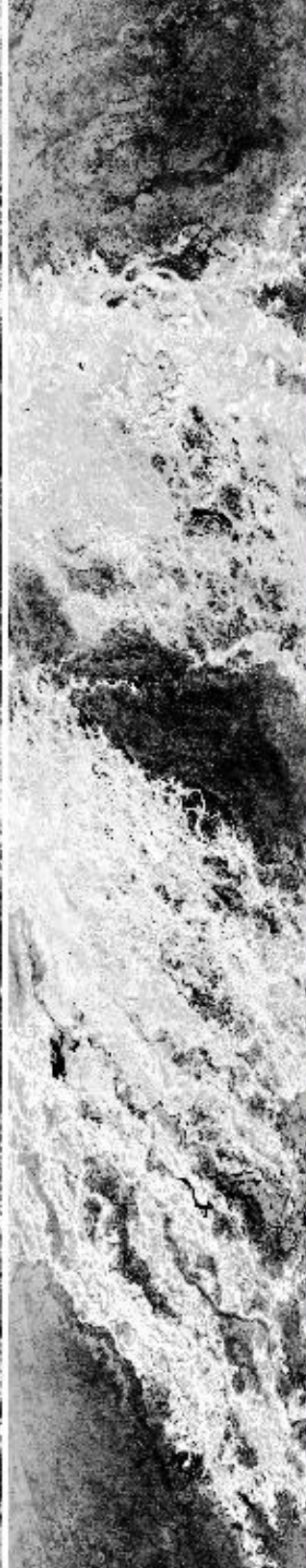
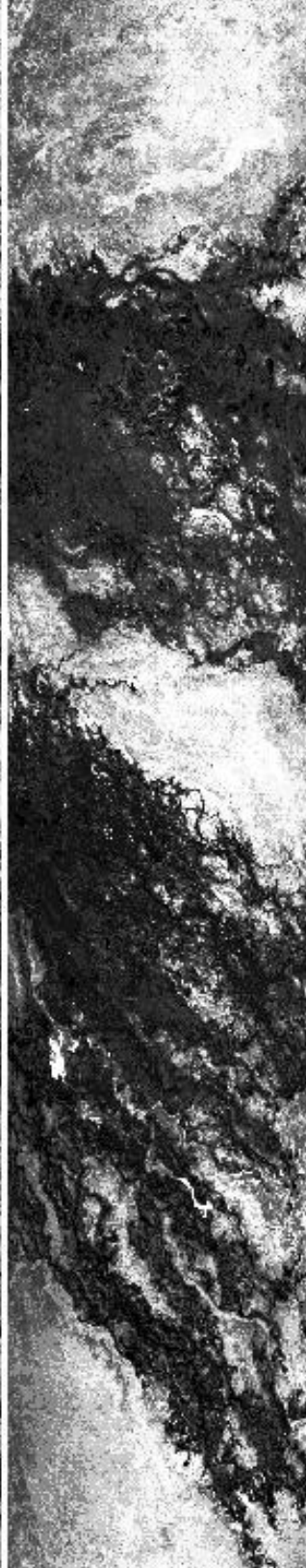
11:08:00

11:10:00

11:12:00

11:14:00

11:16:00



11:08:00

11:10:00

11:12:00

11:14:00

11:16:00

11:16:00

11:18:00

11:20:24



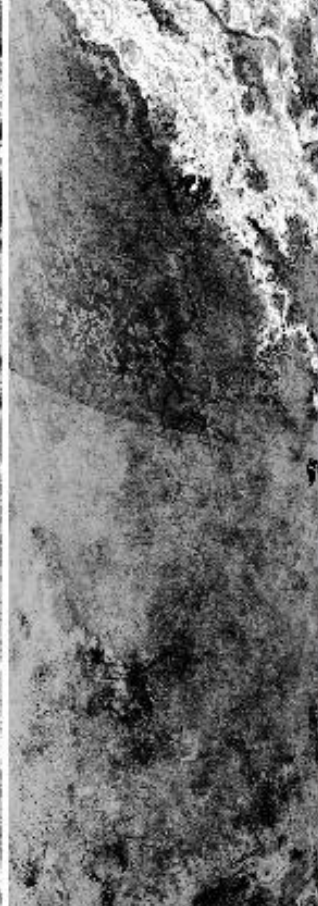
0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20,#10,#2)

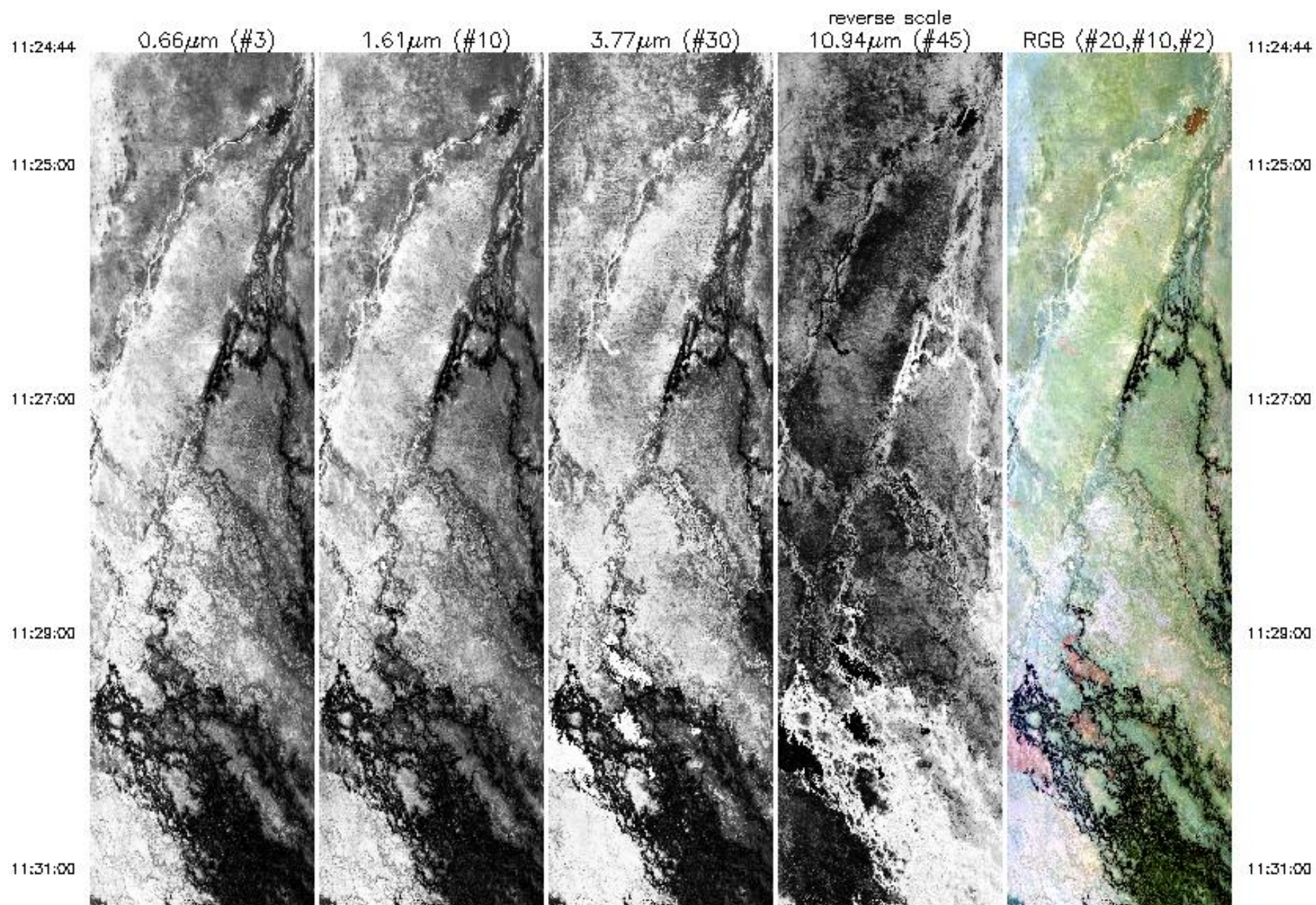
11:16:00

11:18:00

11:20:24

Upper Left Lat, Lon = -18.2° , 23.1°
 Lower Right Lat, Lon = -20.4° , 22.9°
 Aircraft Heading = 187.2°
 Solar Zenith = 29.1°
 GPS Altitude = 20167. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana/Namibia
Flight #00-152 Track #11



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

11:41:00

11:43:00

11:45:00

11:47:18



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

11:39:00

11:41:00

11:43:00

11:45:00

11:47:18

Upper Left Lat, Lon = -20.5°, 23.3°

Lower Right Lat, Lon = -17.9°, 23.5°

Aircraft Heading = 18.0°

11:47:18



0.66 μm (#3)



1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale

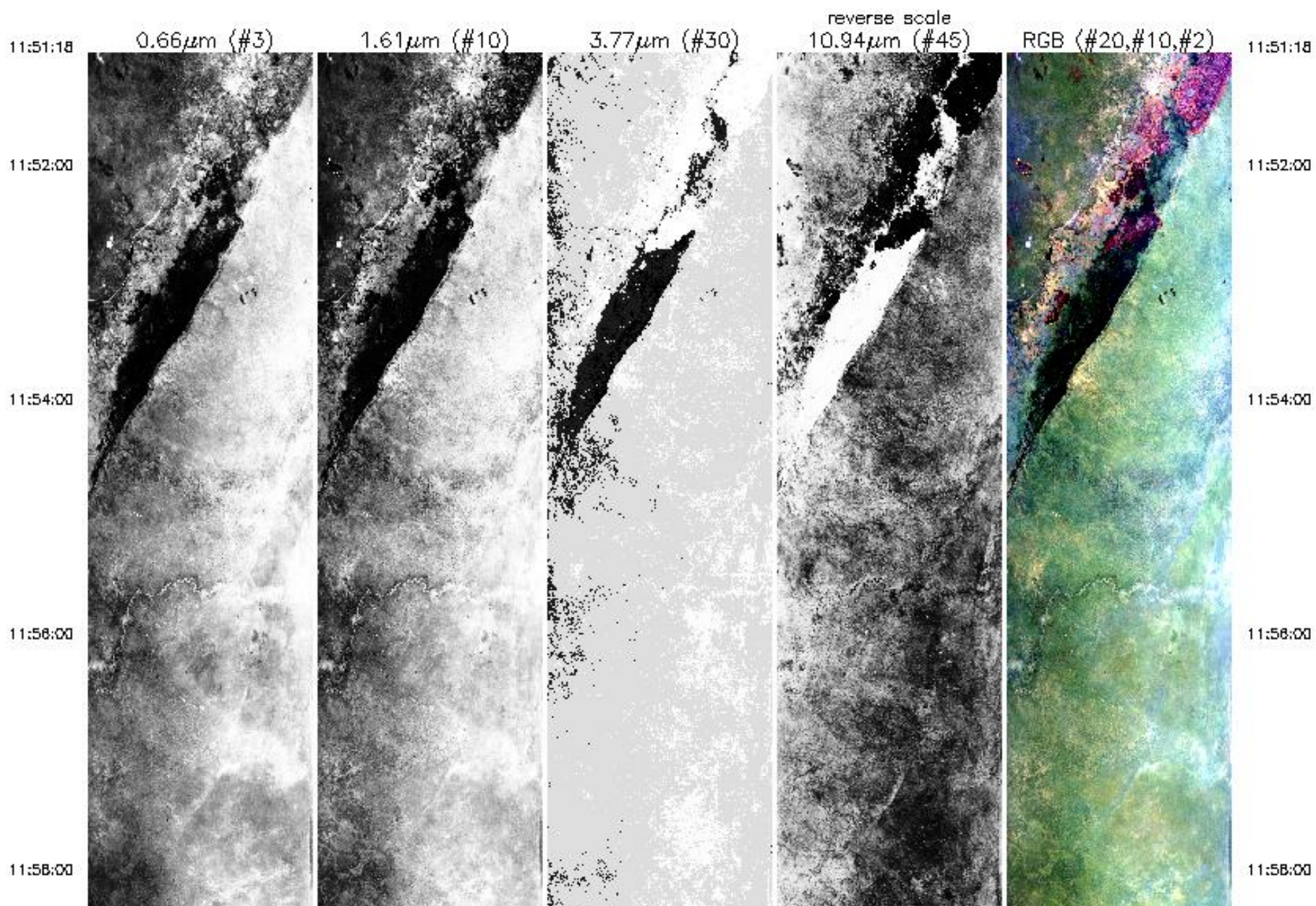


RGB (#20,#10,#2)

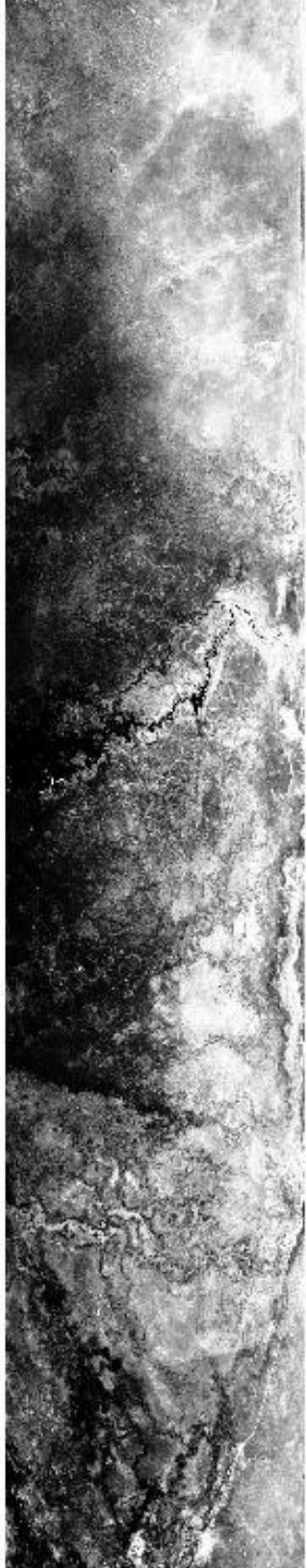
11:47:18

Upper Left Lat, Lon = -20.5° , 23.3°
Lower Right Lat, Lon = -17.9° , 23.5°
Aircraft Heading = 18.9°
Solar Zenith = 33.3°
GPS Altitude = 20109. m (MSL)

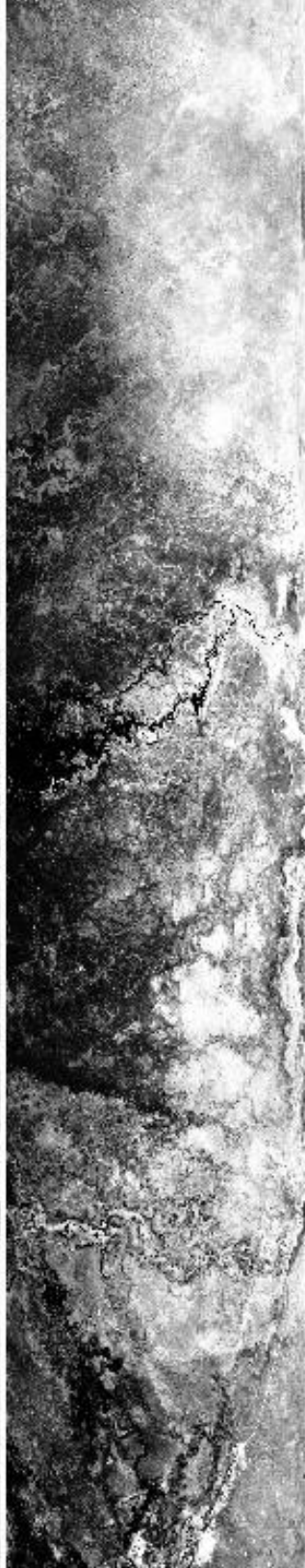
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana/Namibia
Flight #00-152 Track #12



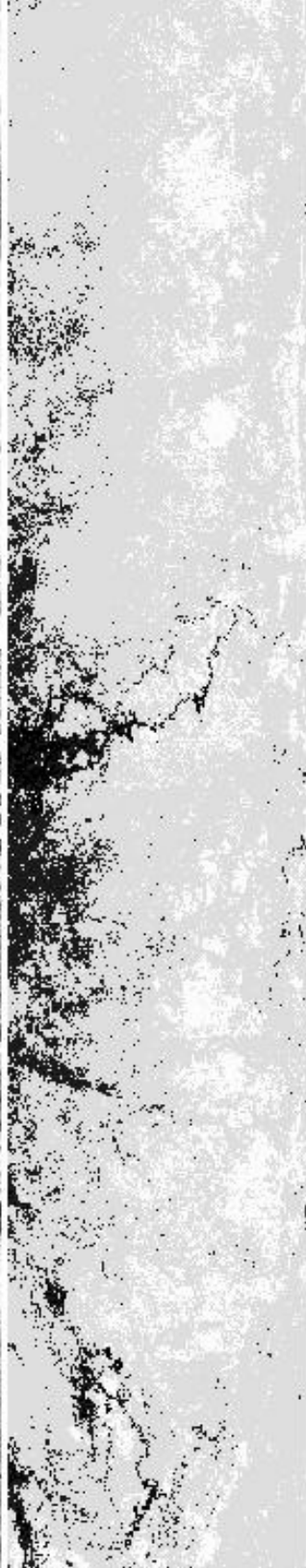
11:58:00



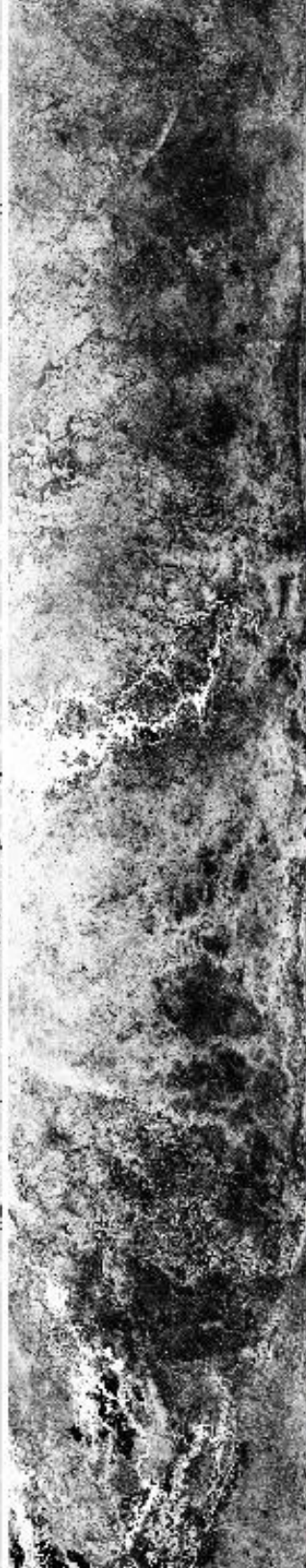
12:00:00



12:02:00



12:04:00



12:06:00



11:58:00

12:00:00

12:02:00

12:04:00

12:06:00

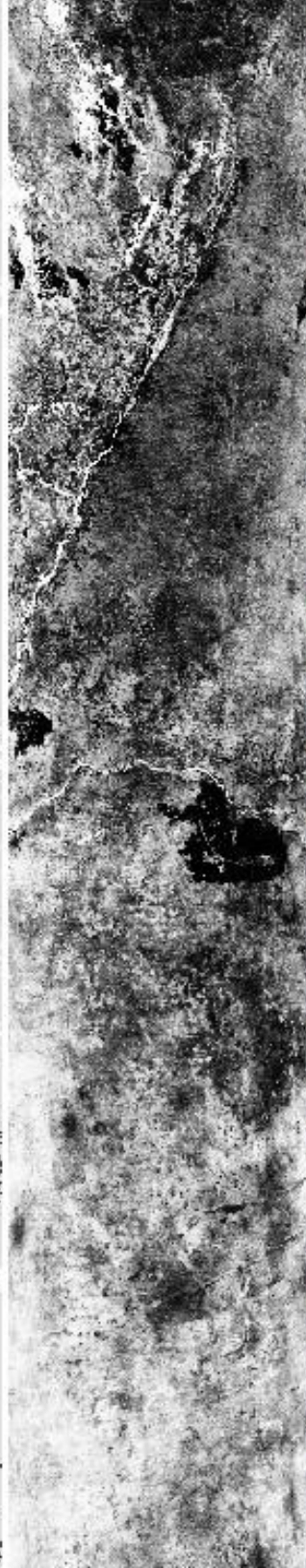
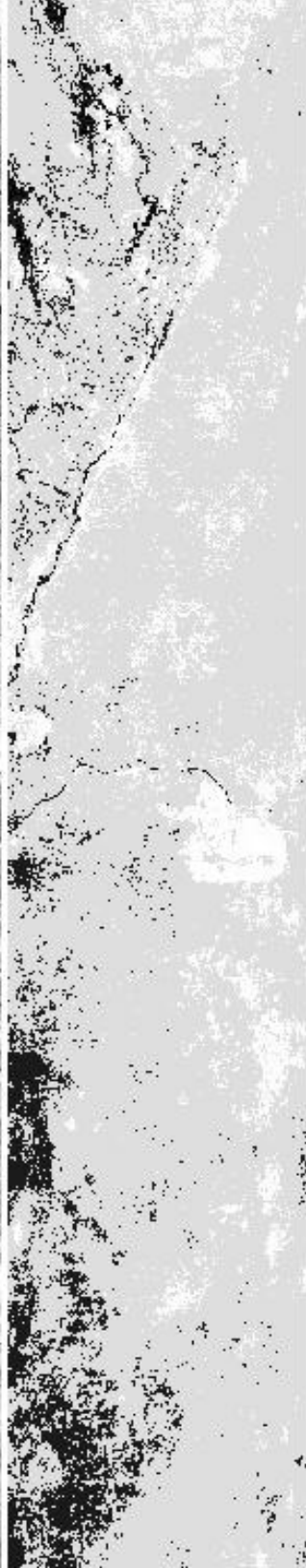
12:08:00

12:08:00

12:10:00

12:12:00

12:14:00



12:08:00

12:08:00

12:10:00

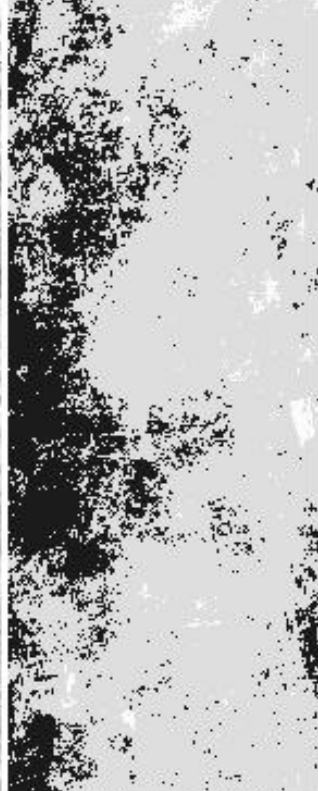
12:12:00

12:14:00

12:14:00

12:16:00

12:18:04



12:14:00

12:16:00

12:18:04

0.66µm (#3)

1.61µm (#10)

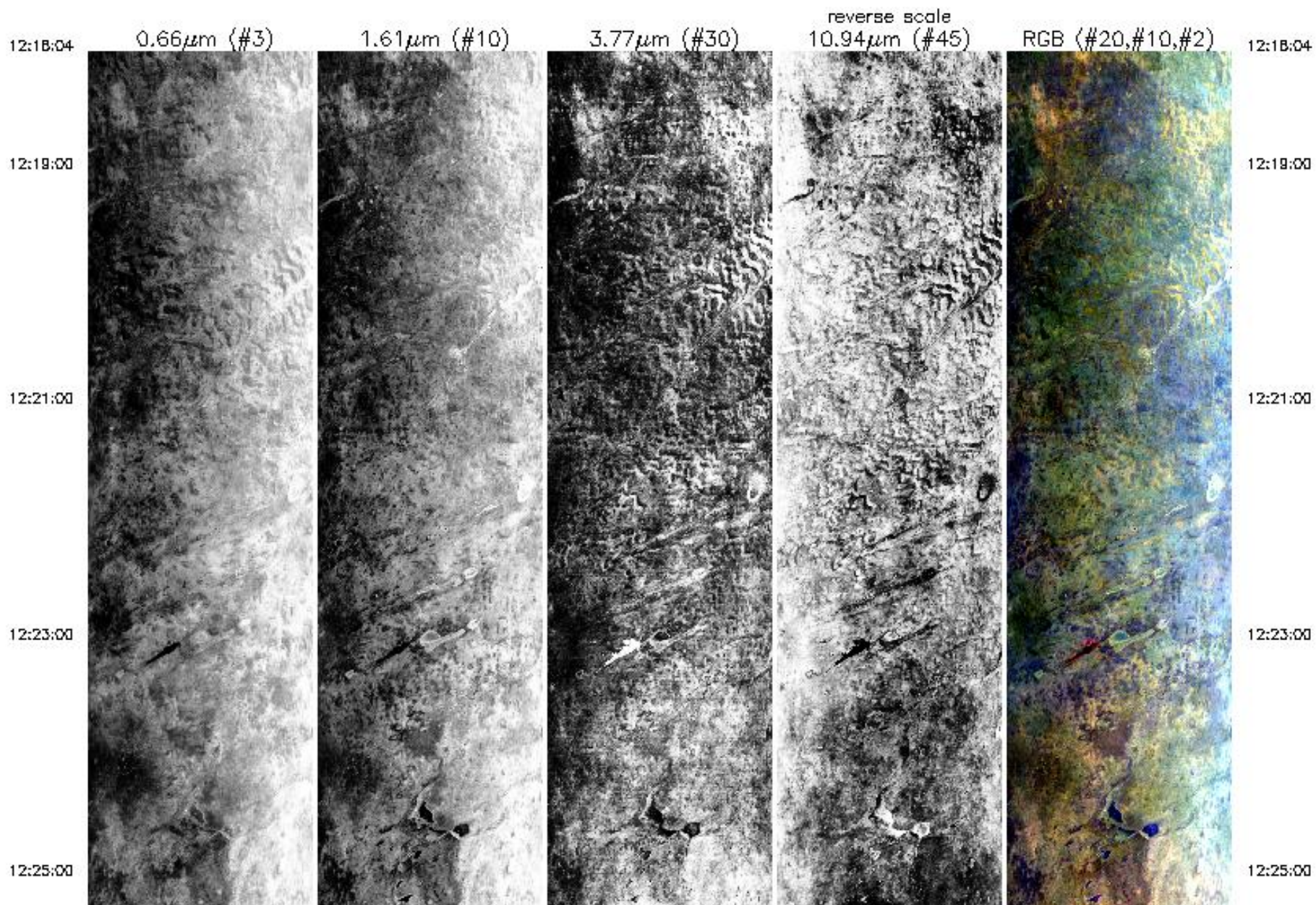
3.77µm (#30)

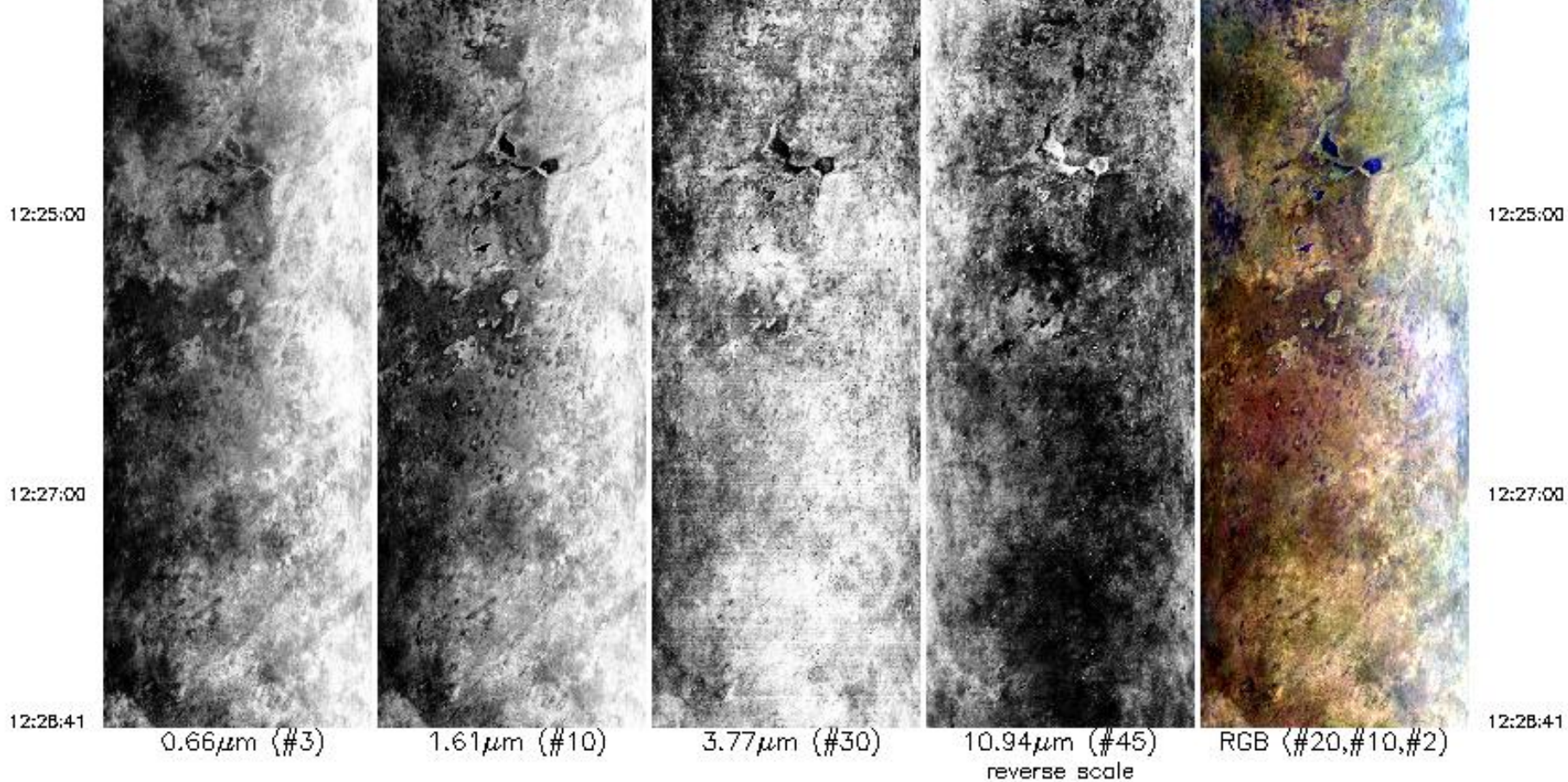
10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -18.0° , 23.8°
 Lower Right Lat, Lon = -21.1° , 23.5°
 Aircraft Heading = 188.1°
 Solar Zenith = 34.9°
 GPS Altitude = 20196. m (MSL)

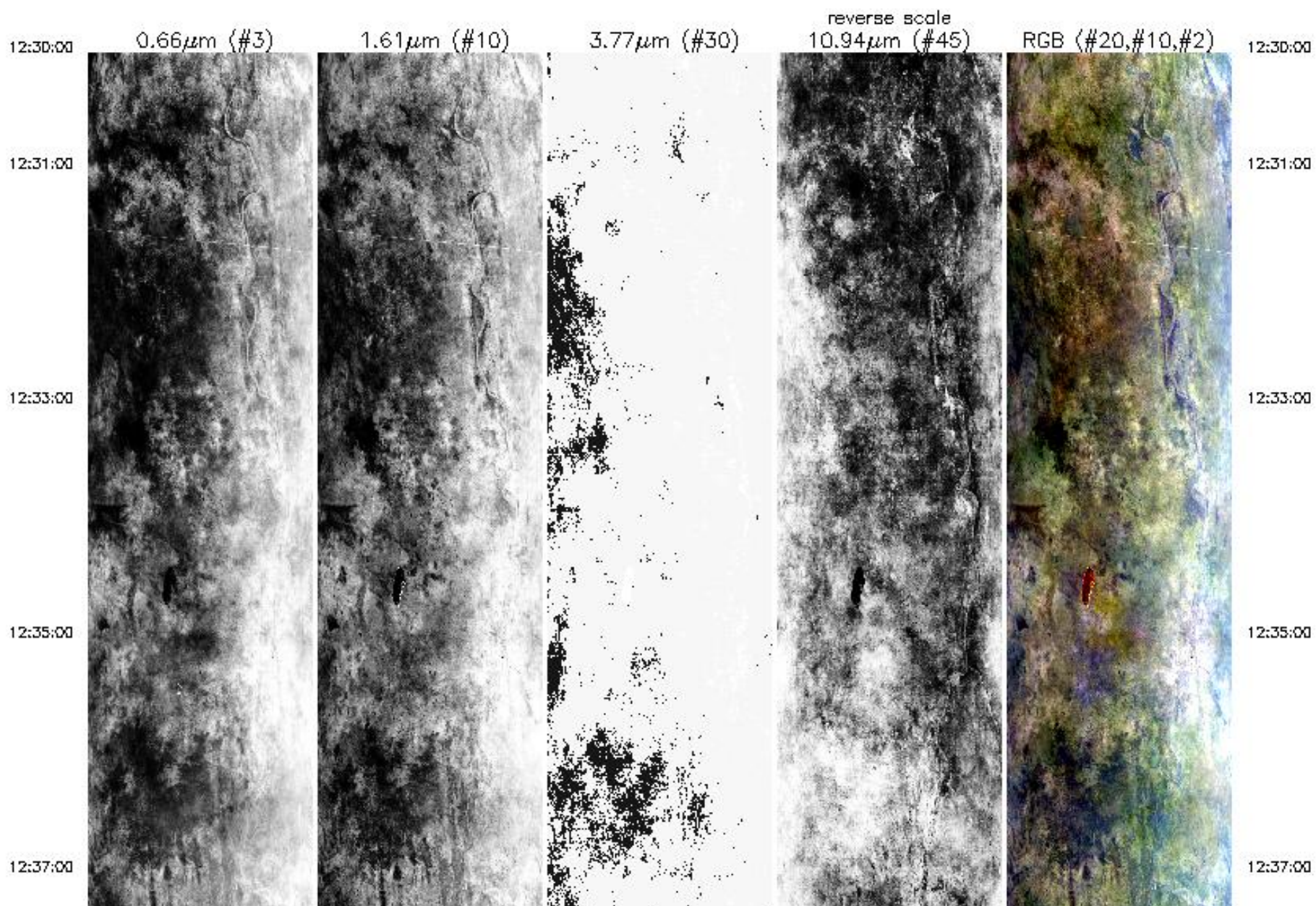
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #13





Upper Left Lat, Lon = -21.0° , 23.2°
 Lower Right Lat, Lon = -22.2° , 23.3°
 Aircraft Heading = 191.8°
 Solar Zenith = 40.9°
 GPS Altitude = 20148. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #14



12:37:00

12:38:00

12:40:58



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)

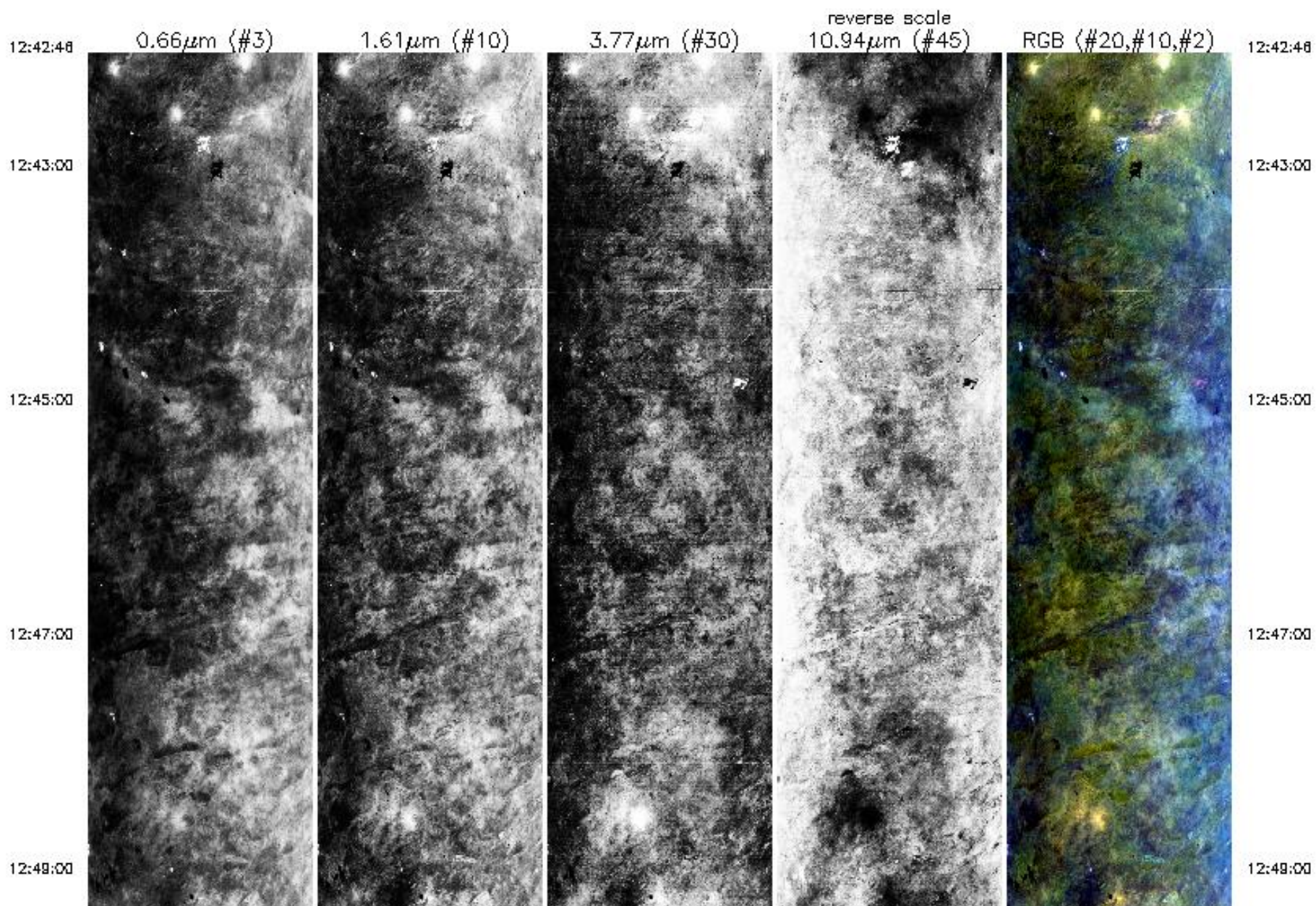
12:37:00

12:38:00

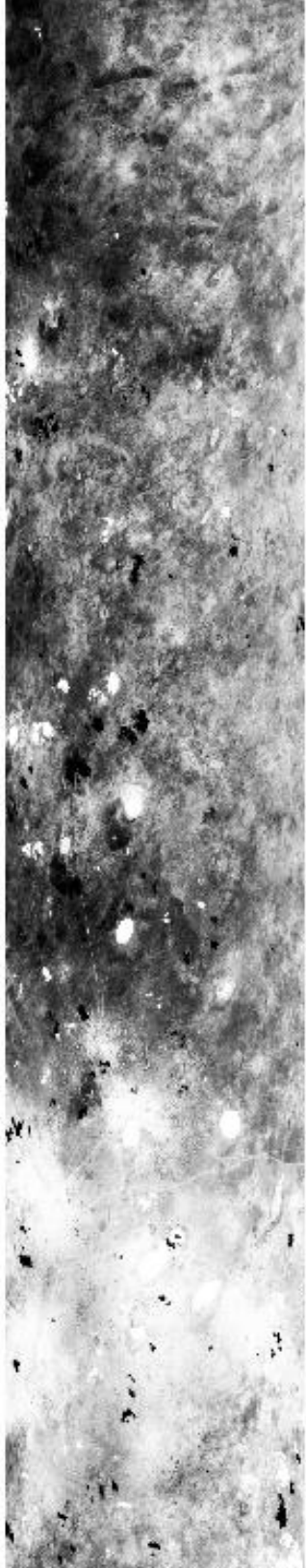
12:40:58

Upper Left Lat, Lon = -22.1°, 23.0°
 Lower Right Lat, Lon = -22.6°, 21.7°
 Aircraft Heading = 260.3°
 Solar Zenith = 43.5°
 GPS Altitude = 20066. m (MSL)

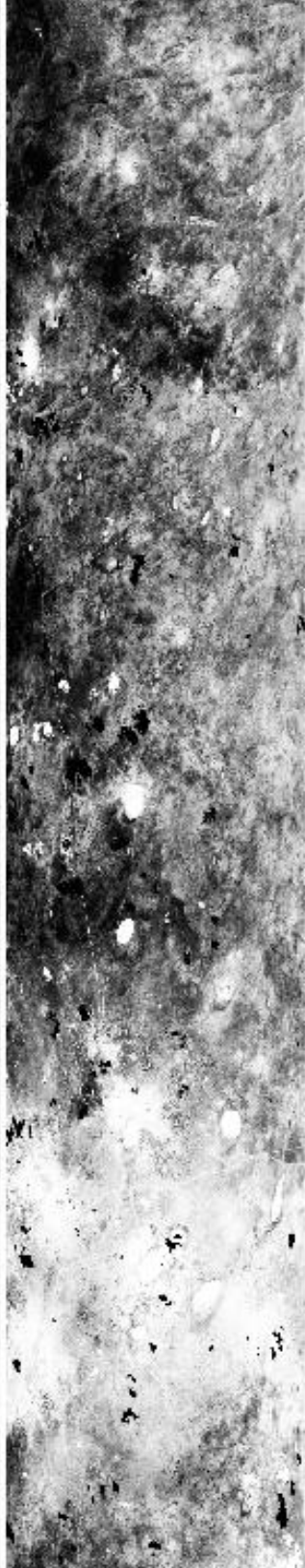
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #15



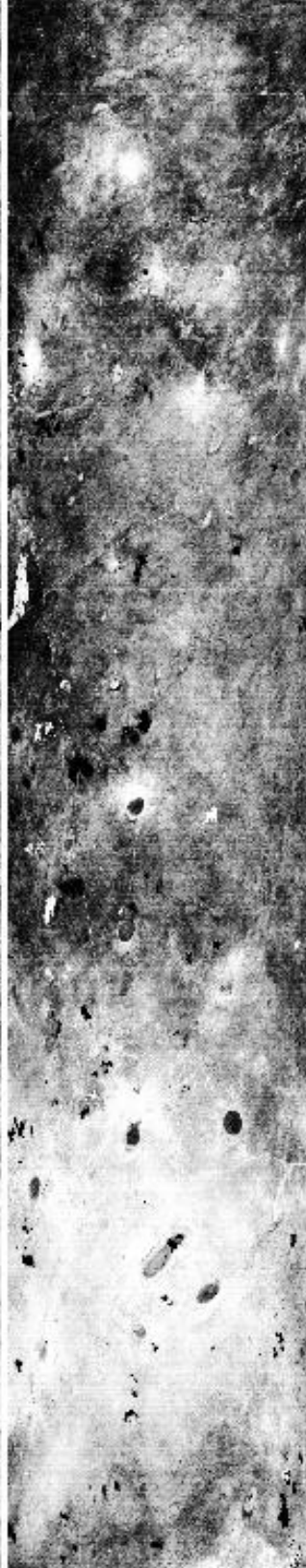
12:48:00



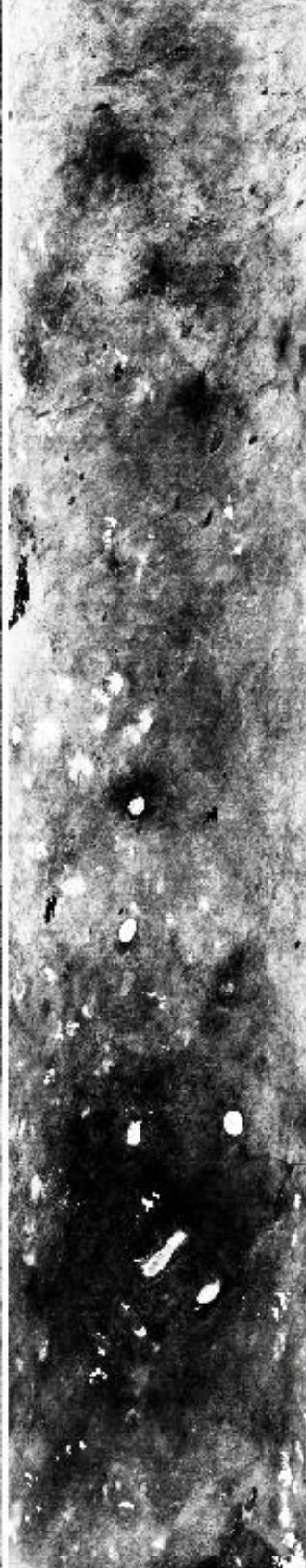
12:51:00



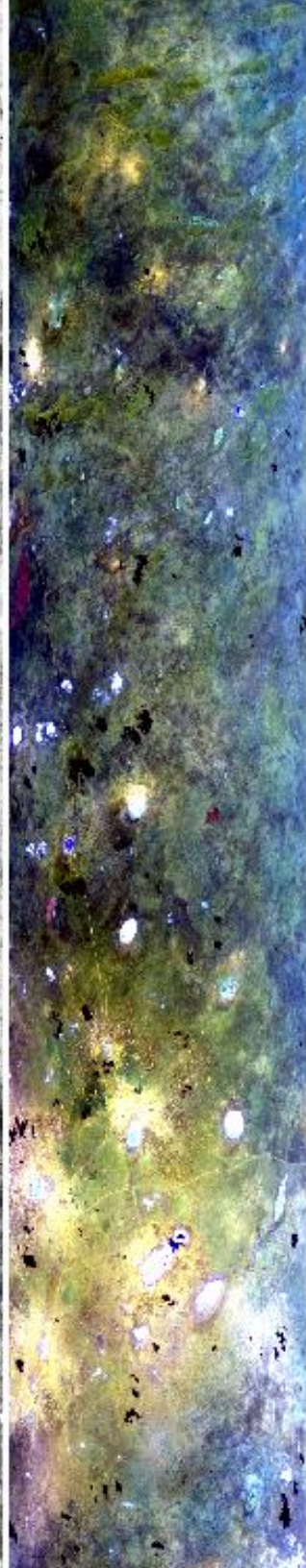
12:53:00



12:55:00



12:57:00



12:48:00

12:51:00

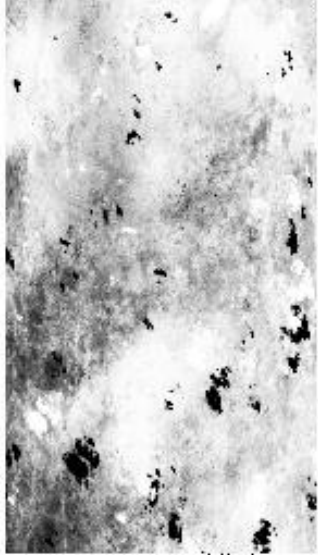
12:53:00

12:55:00

12:57:00

12:57:00

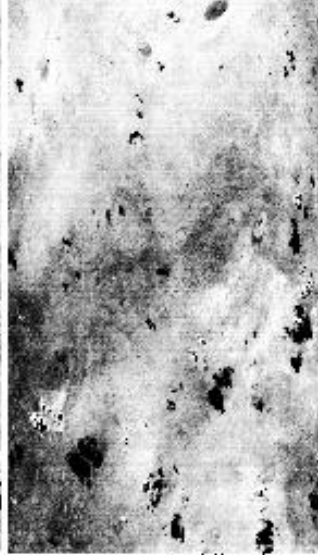
12:58:51



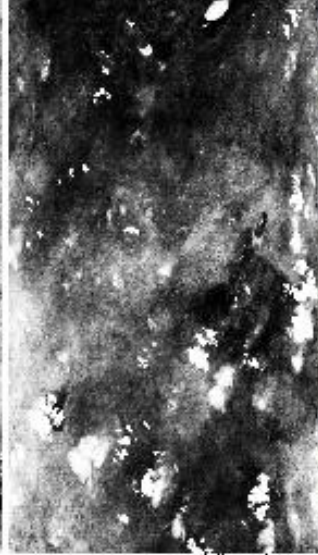
0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale

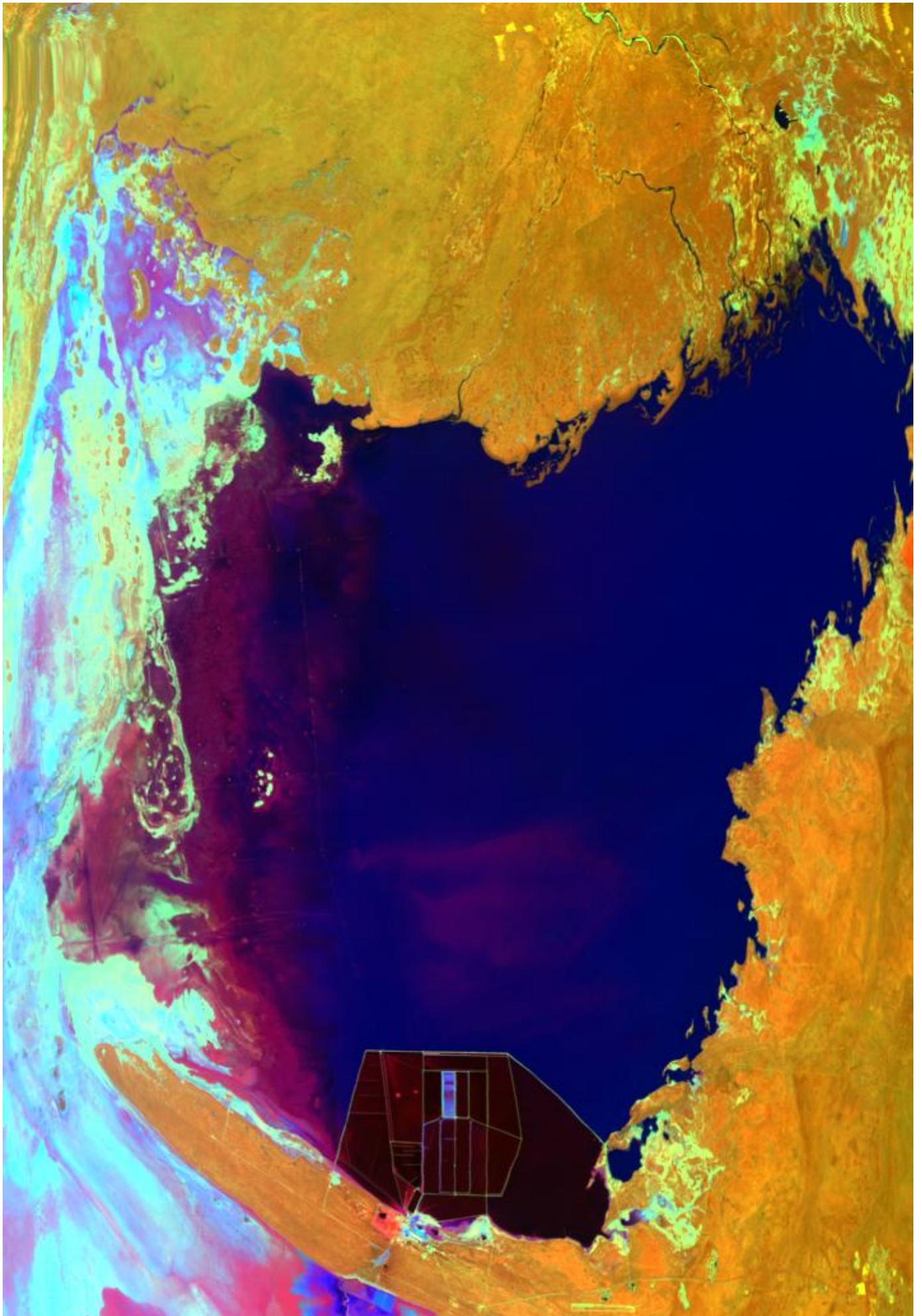


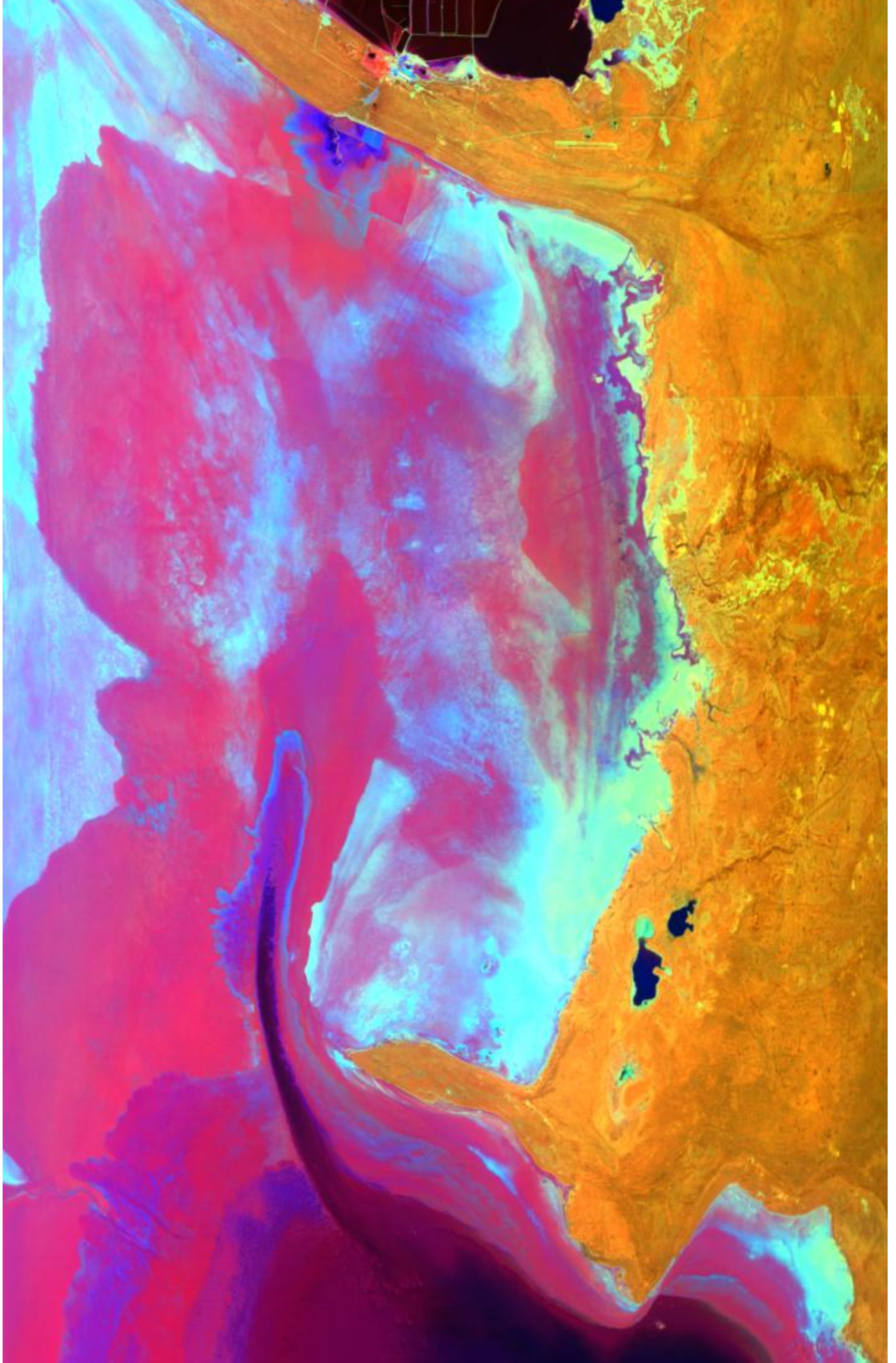
RGB (#20,#10,#2)

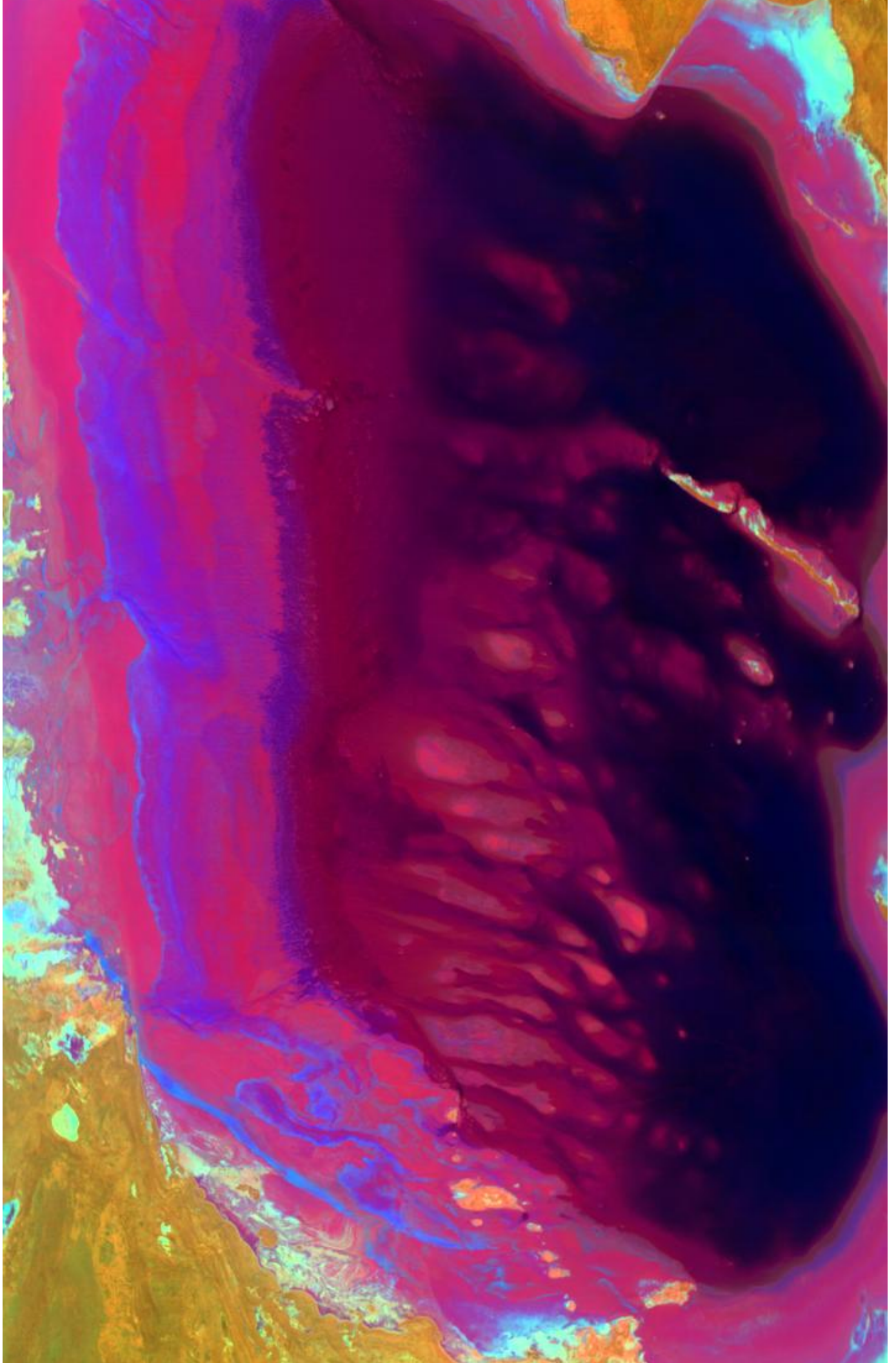
12:57:00

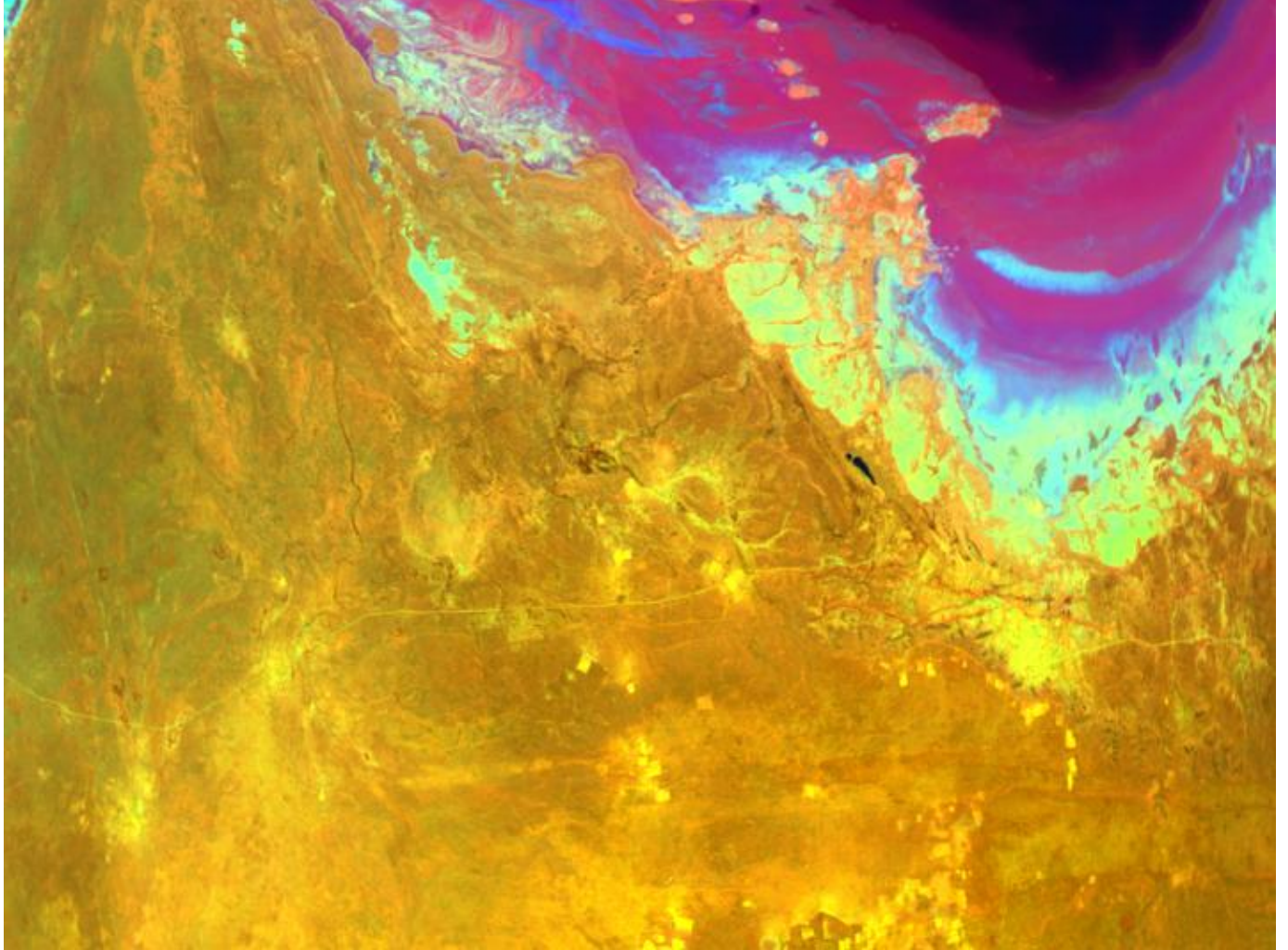
12:58:51

Upper Left Lat, Lon = -22.6° , 21.4°
Lower Right Lat, Lon = -24.4° , 22.2°
Aircraft Heading = 173.0°
Solar Zenith = 44.8°
GPS Altitude = 20098. m (MSL)

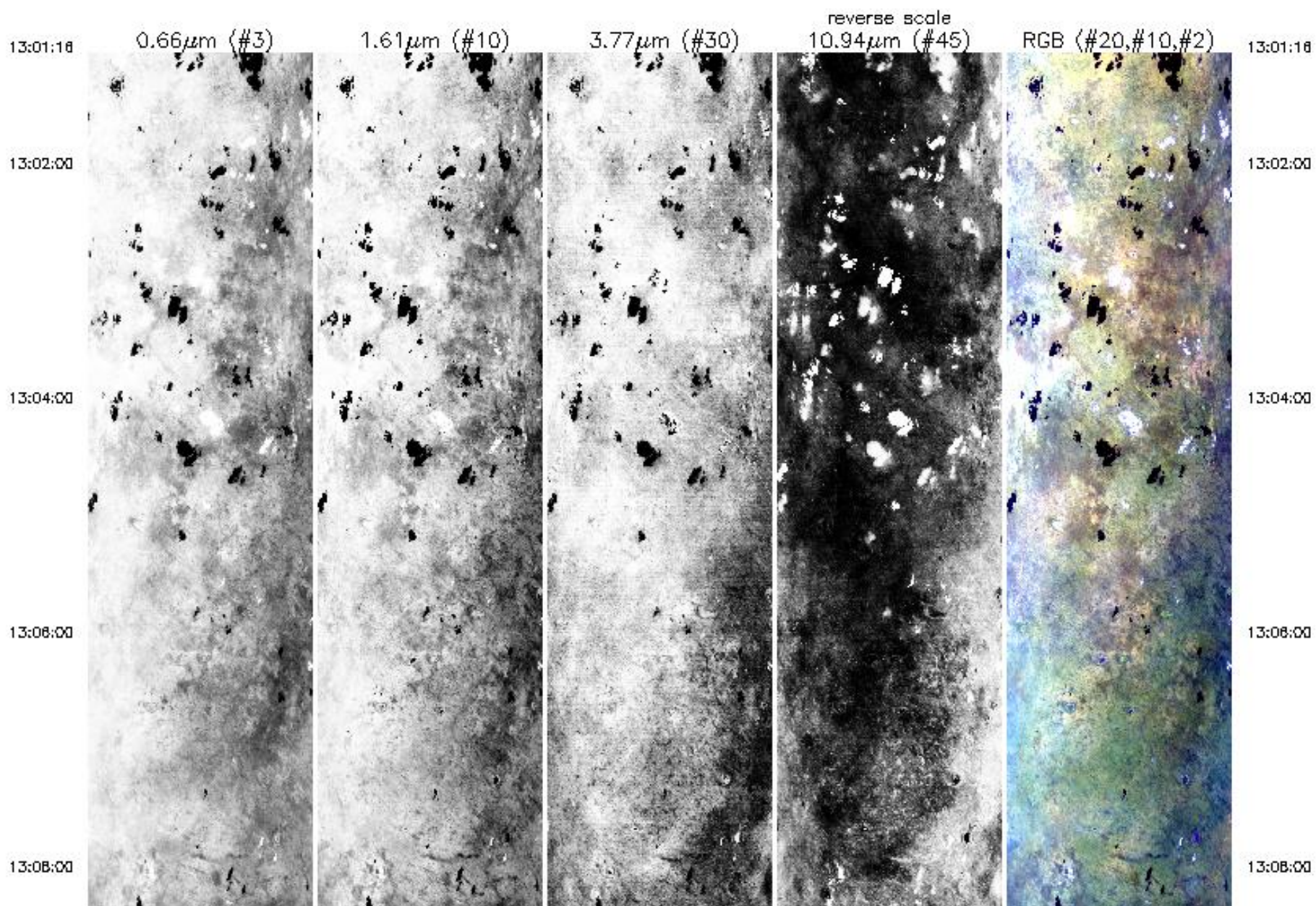




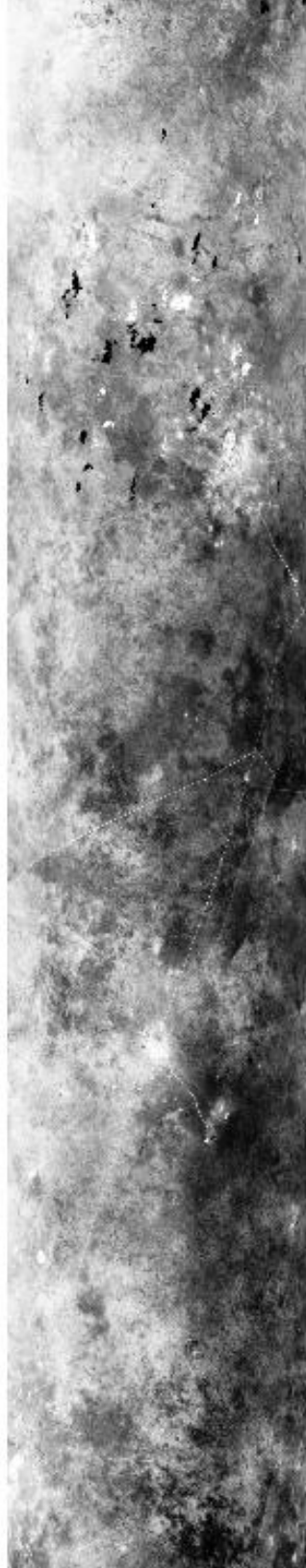




MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #16



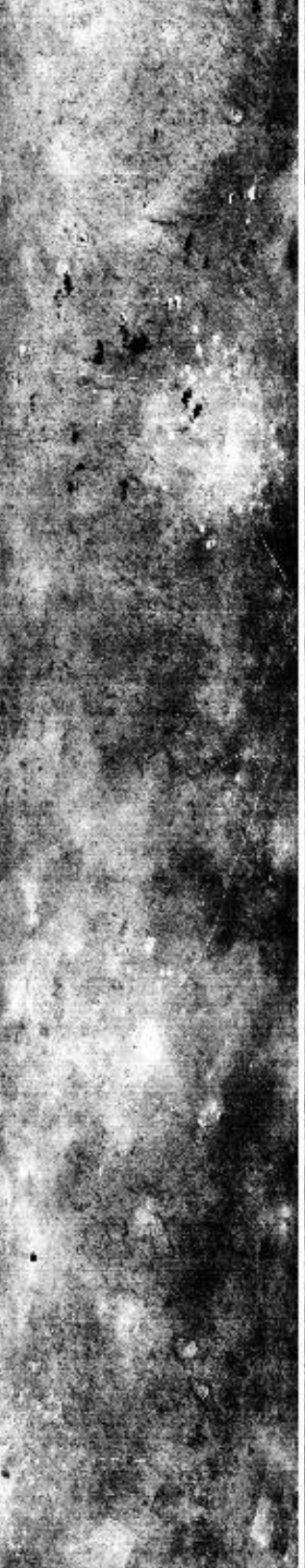
13:08:00



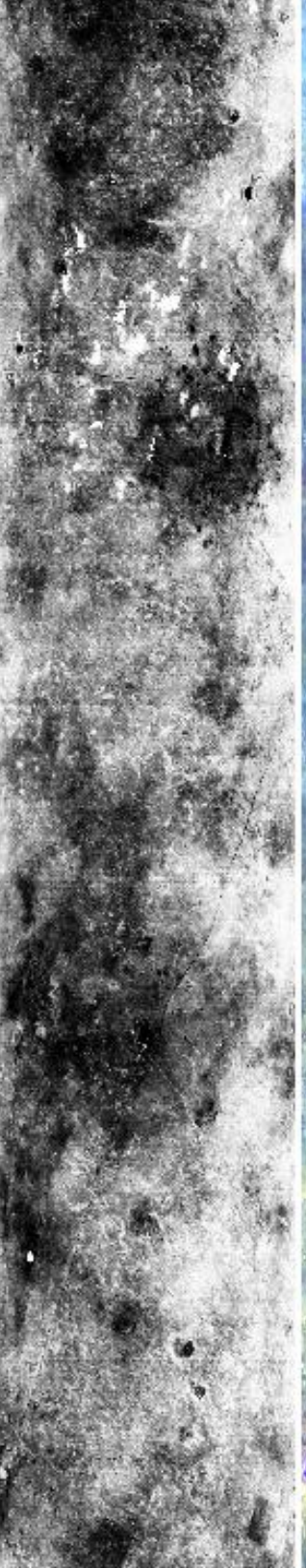
13:10:00



13:12:00



13:14:00



13:16:00



13:08:00

13:10:00

13:12:00

13:14:00

13:16:00

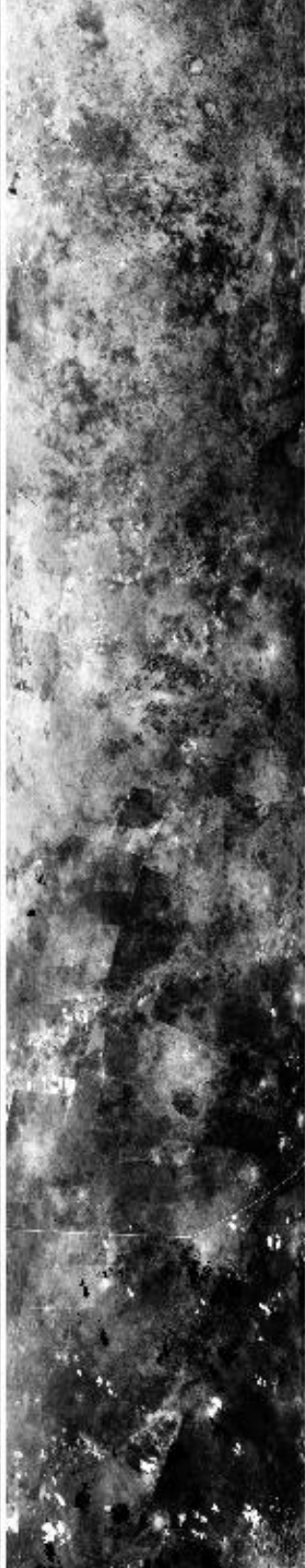
13:16:00

13:18:00

13:20:00

13:22:00

13:24:00



13:16:00

13:18:00

13:20:00

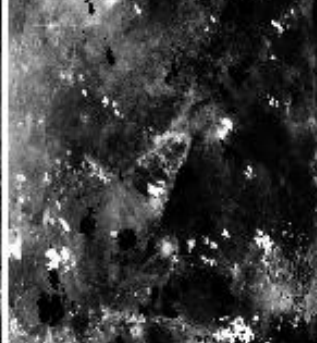
13:22:00

13:24:00

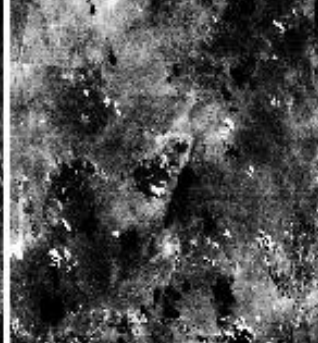
13:24:00



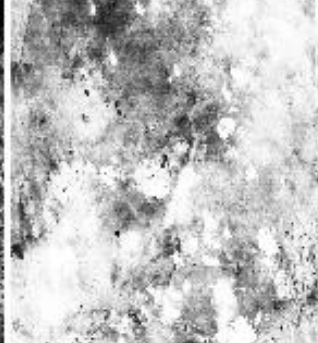
0.66 μ m (#3)



1.61 μ m (#10)



3.77 μ m (#30)



10.94 μ m (#45)
reverse scale



RGB (#20, #10, #2)

13:24:00

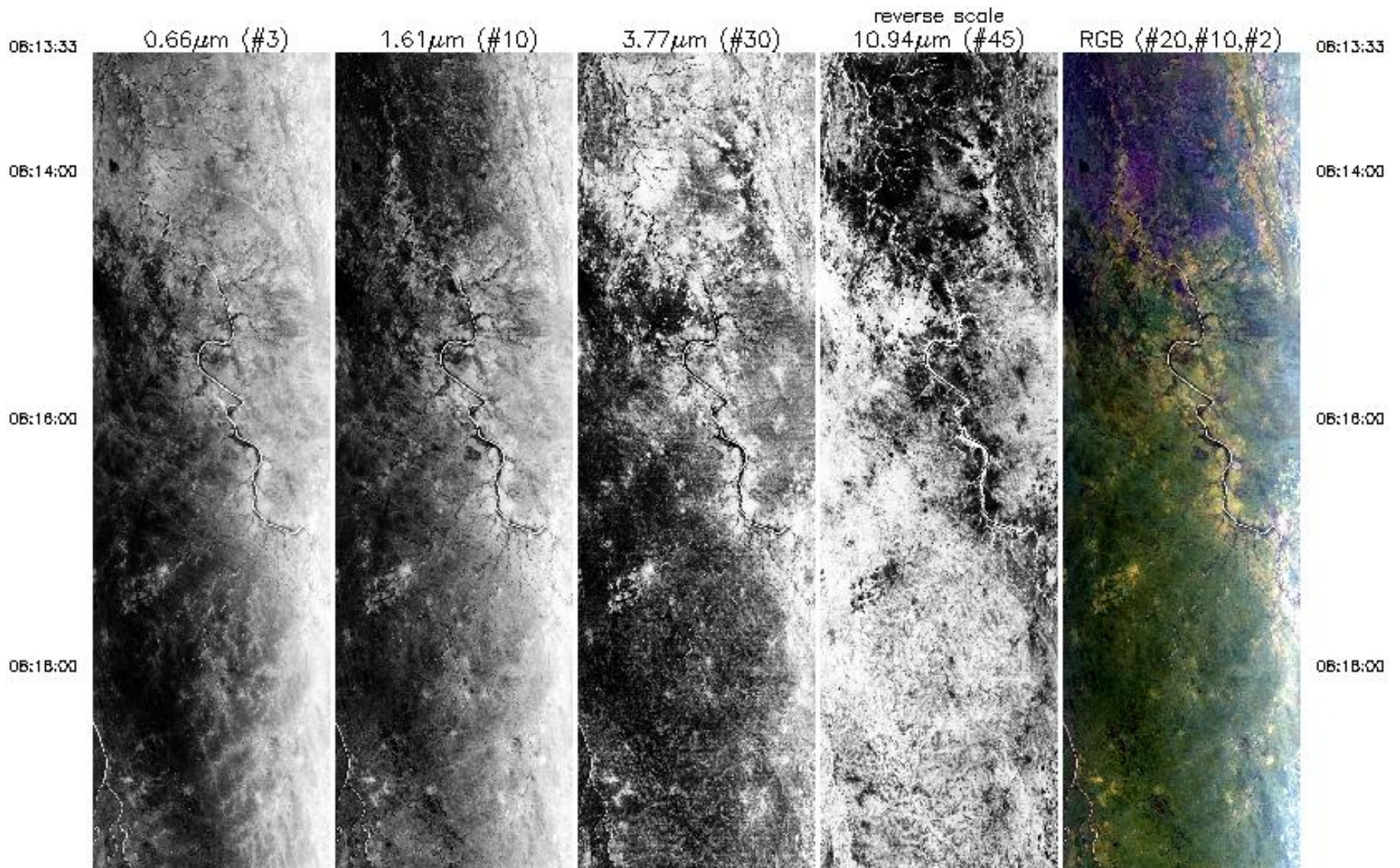
13:25:21

13:25:21

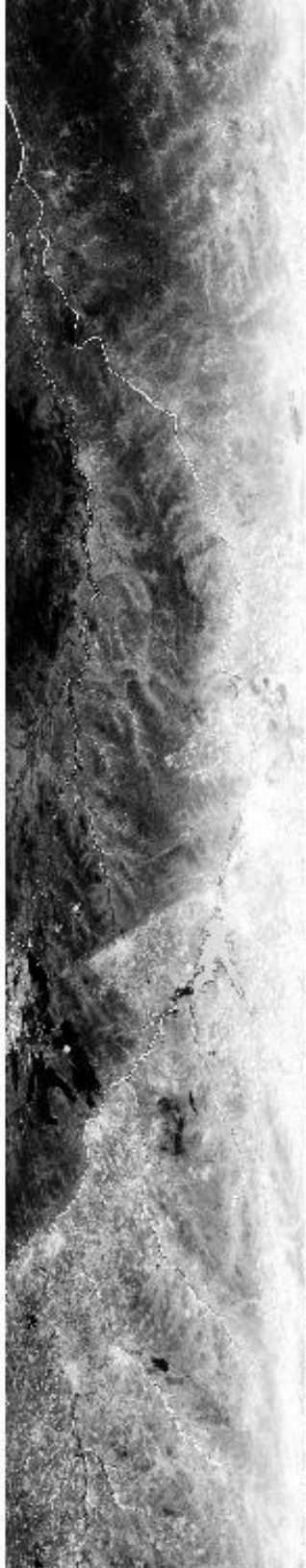
Upper Left Lat, Lon = -24.7° , 22.1°
Lower Right Lat, Lon = -24.1° , 25.0°
Aircraft Heading = 96.0°
Solar Zenith = 49.9°
GPS Altitude = 20249. m (MSL)

Flight #00-152 Browse Imagery

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #1



06:18:00



06:20:00



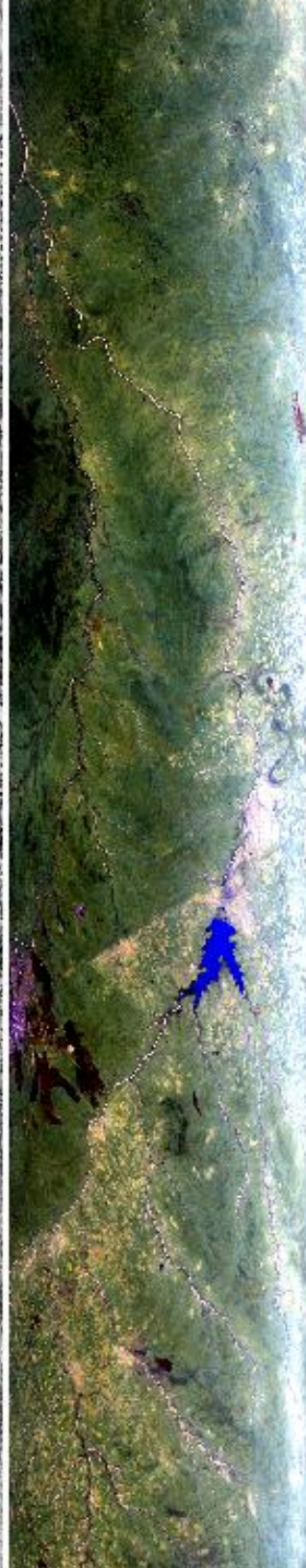
06:22:00



06:24:00



06:26:00



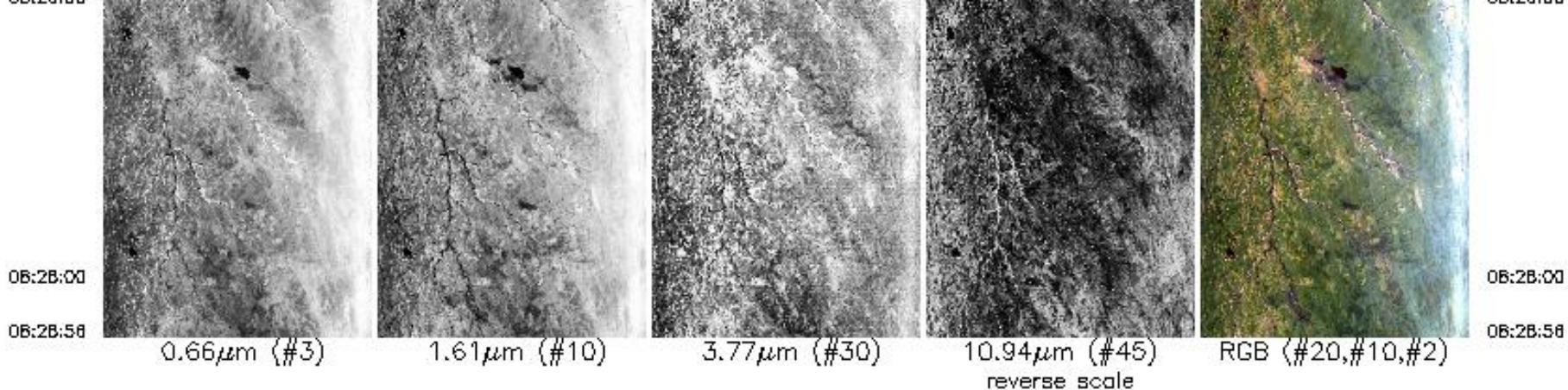
06:18:00

06:20:00

06:22:00

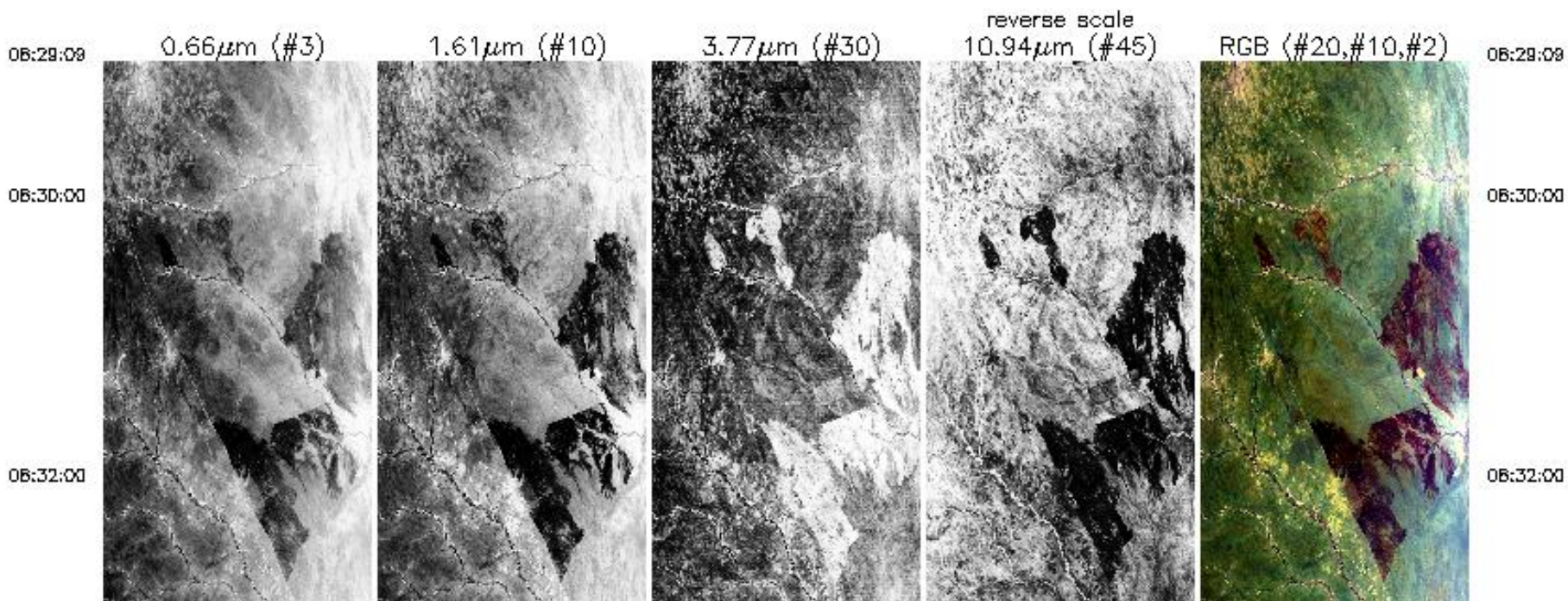
06:24:00

06:26:00



Upper Left Lat, Lon = -22.0° , 28.6°
 Lower Right Lat, Lon = -21.1° , 26.9°
 Aircraft Heading = 308.8°
 Solar Zenith = 42.3°
 GPS Altitude = 18977. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 27 Aug 2000
 Botswana
 Flight #00–152 Track #2



06:32:00

06:34:00

06:36:00

06:37:34



06:32:00

06:34:00

06:36:00

06:37:34

0.66μm (#3)

1.61μm (#10)

3.77μm (#30)

10.94μm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -20.9°, 27.1°
Lower Right Lat, Lon = -20.3°, 26.2°
Aircraft Heading = 317.4°
Solar Zenith = 39.9°
GPS Altitude = 19679. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #3

0.66μm (#3)

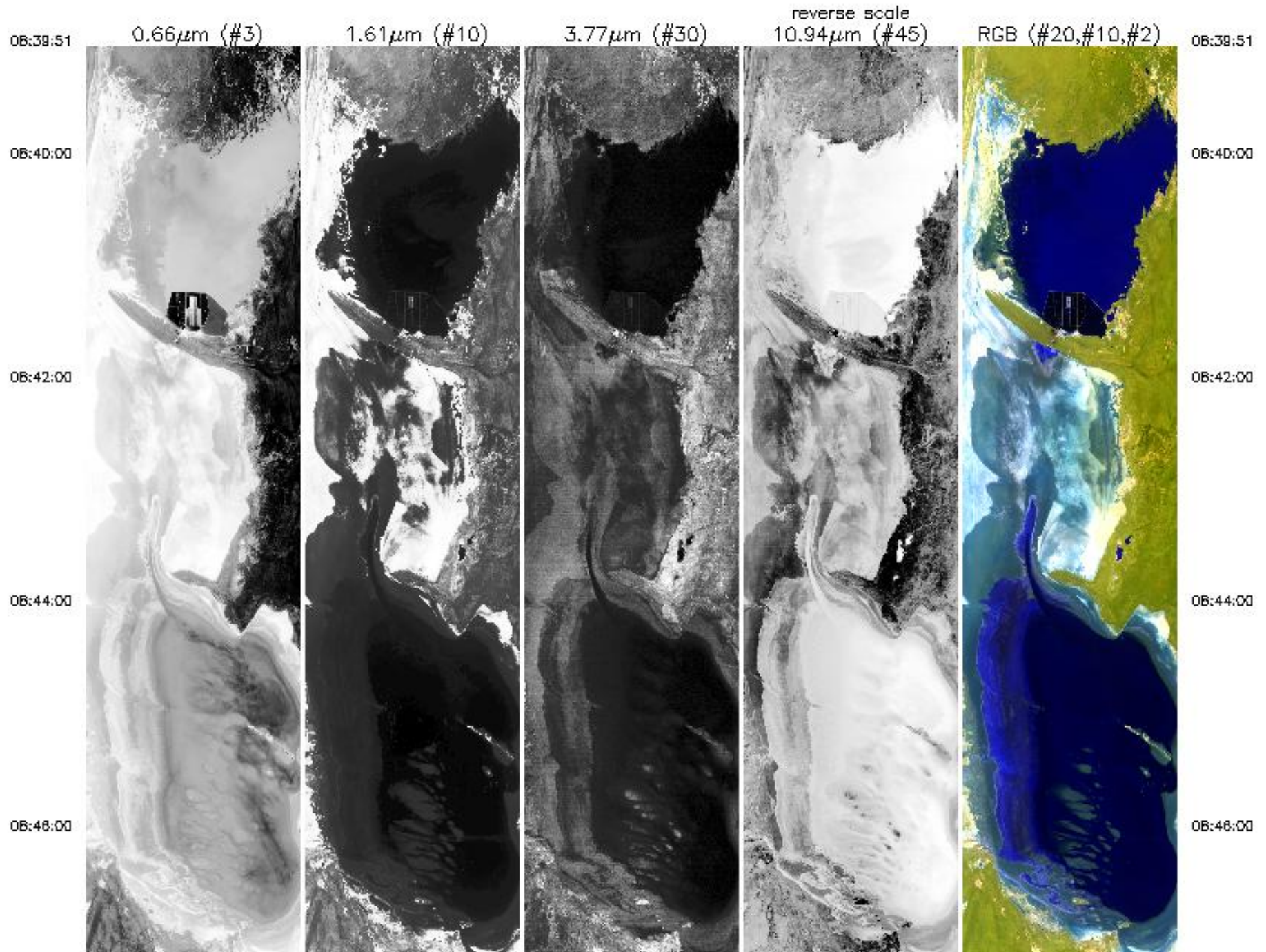
1.61μm (#10)

3.77μm (#30)

10.94μm (#45)
reverse scale

RGB (#20,#10,#2)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign – 27 Aug 2000
Botswana
Flight #00-152 Track #3



06:48:00

06:48:00

06:50:00

06:52:00

06:54:00

06:55:48



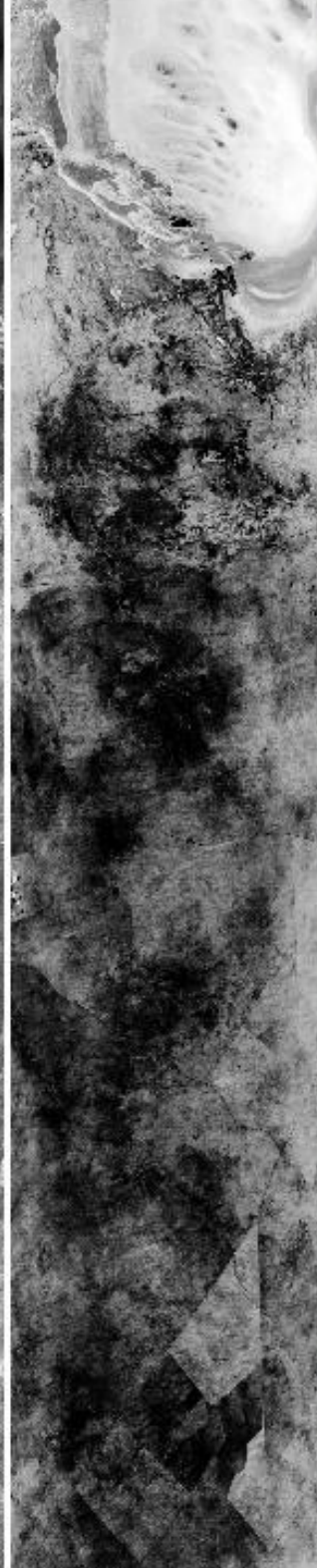
0.66 μm (#3)



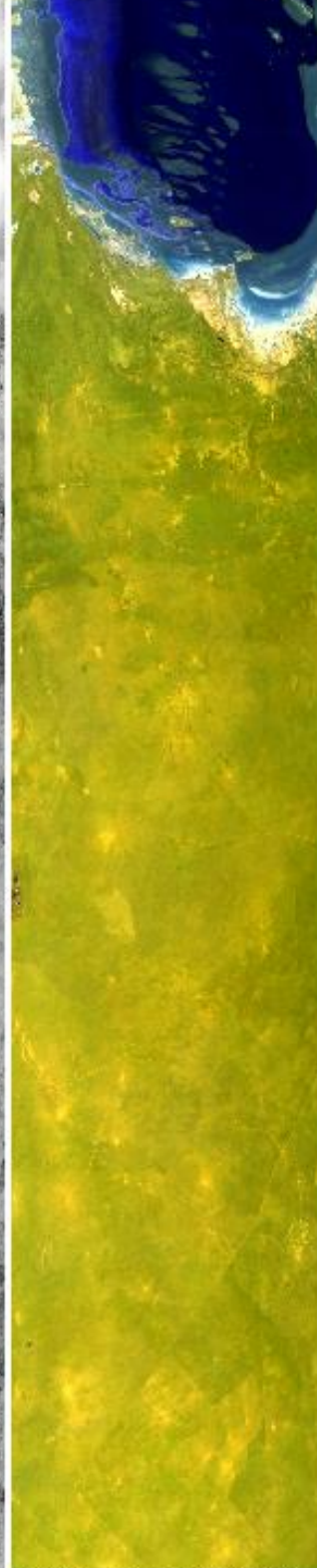
1.61 μm (#10)



3.77 μm (#30)



10.94 μm (#45)
reverse scale



RGB (#20,#10,#2)

06:48:00

06:48:00

06:50:00

06:52:00

06:54:00

06:55:48

06:54:00



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

06:54:00

06:55:48

06:55:48

Upper Left Lat, Lon = -20.2°, 26.0°
Lower Right Lat, Lon = -22.0°, 25.9°
Aircraft Heading = 190.8°
Solar Zenith = 38.5°
GPS Altitude = 19858. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #4

09:02:00



0.66µm (#3)



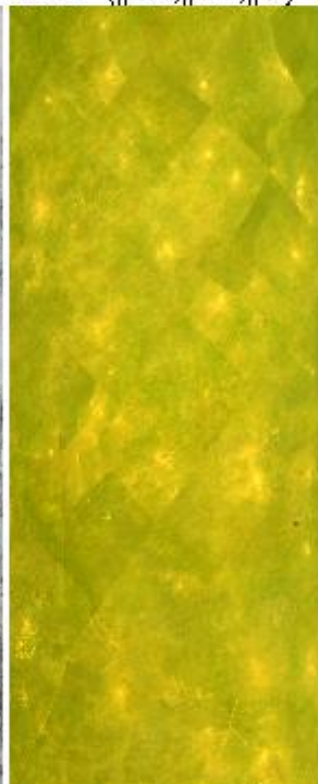
1.61µm (#10)



3.77µm (#30)



reverse scale
10.94µm (#45)



RGB (#20,#10,#2)

09:02:00

09:03:00

09:03:00

09:05:00

09:05:00

09:07:00

09:09:00

09:11:00

09:13:00

09:15:00



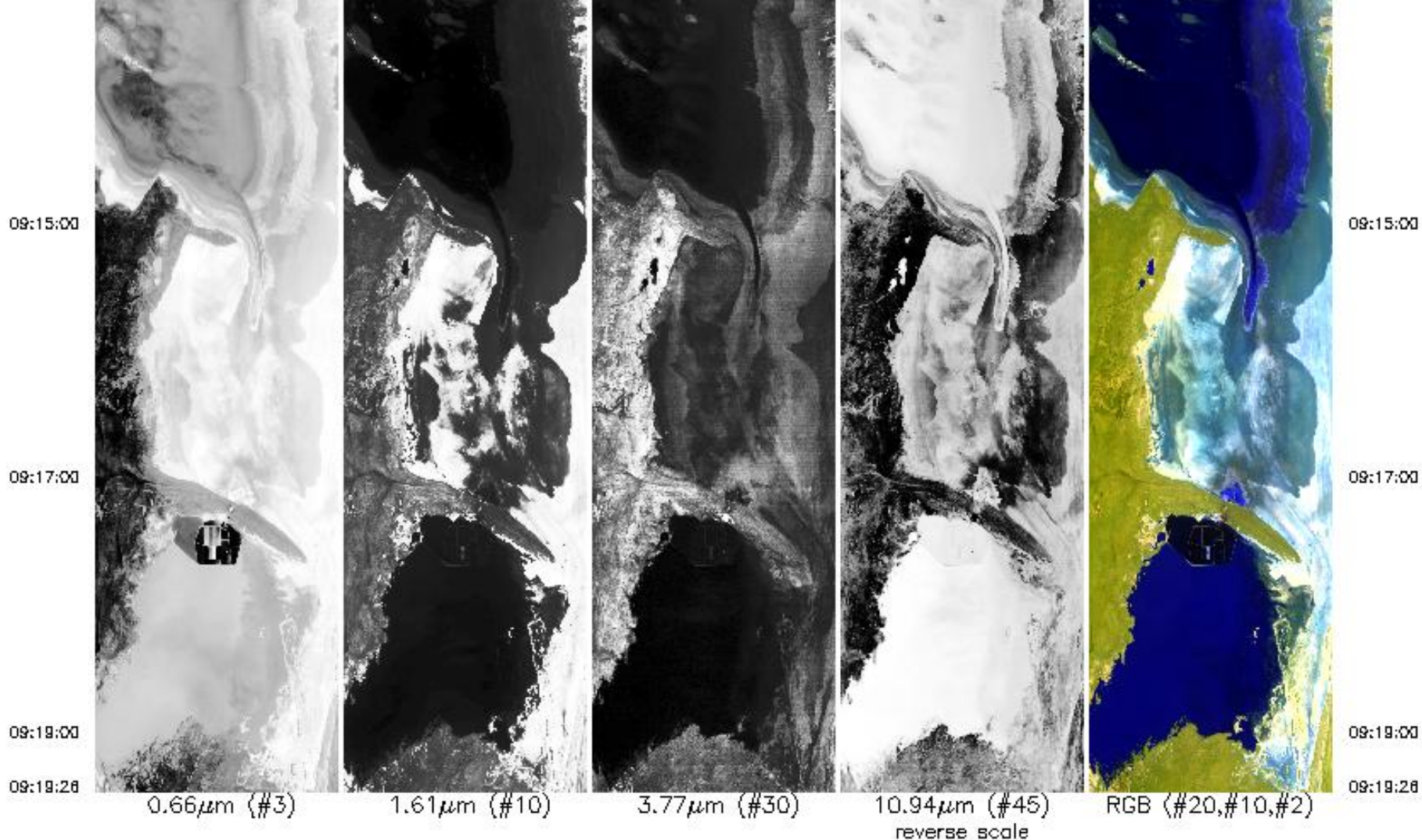
09:07:00

09:09:00

09:11:00

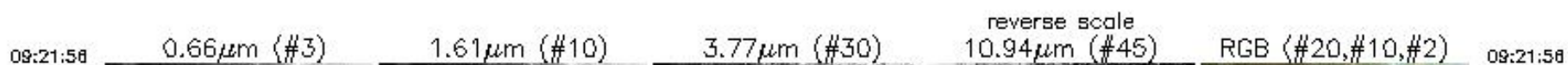
09:13:00

09:15:00

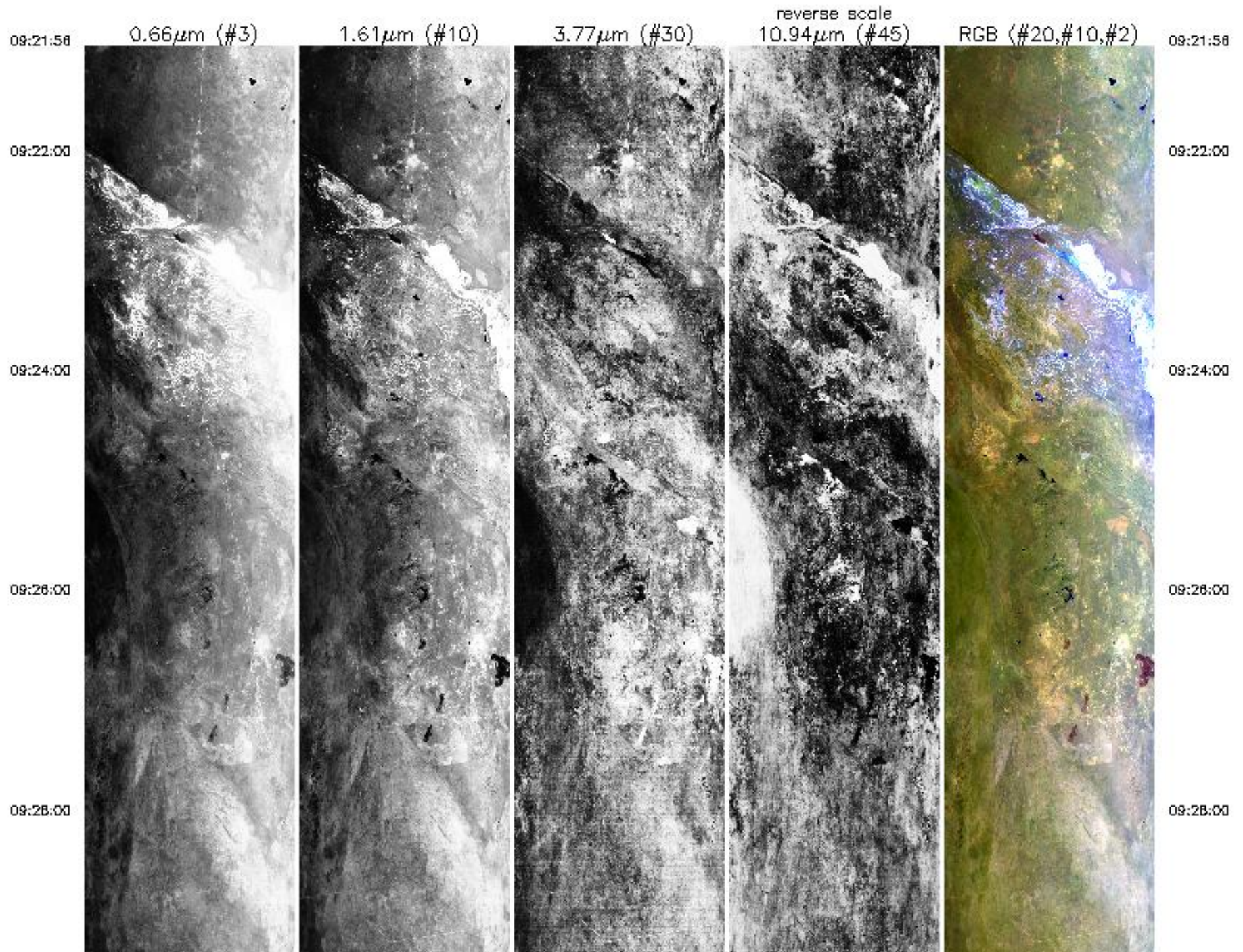


Upper Left Lat, Lon = -22.2° , 25.9°
 Lower Right Lat, Lon = -20.2° , 26.0°
 Aircraft Heading = 13.1°
 Solar Zenith = 37.1°
 GPS Altitude = 20007. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign - 27 Aug 2000
 Botswana
 Flight #00-152 Track #5



MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #5



09:28:00



09:30:00



09:32:00



09:34:00



09:36:00



09:28:00



09:30:00



09:32:00



09:34:00



09:36:00



09:36:00



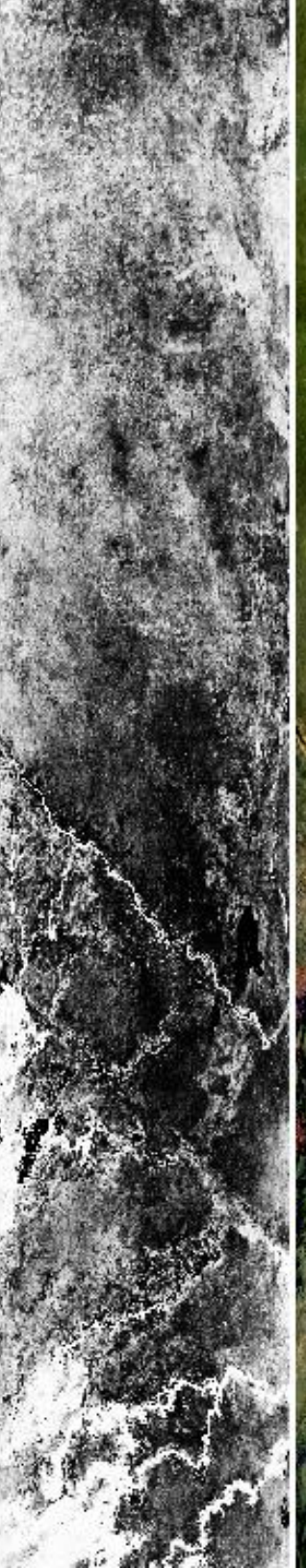
09:36:00



09:40:00



09:42:00



09:44:00



09:36:00

09:36:00

09:40:00

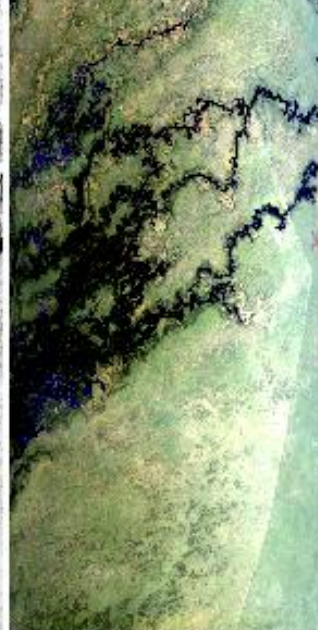
09:42:00

09:44:00

09:44:00

09:48:00

09:48:42



09:44:00

09:48:00

09:48:42

0.66 μm (#3)

1.61 μm (#10)

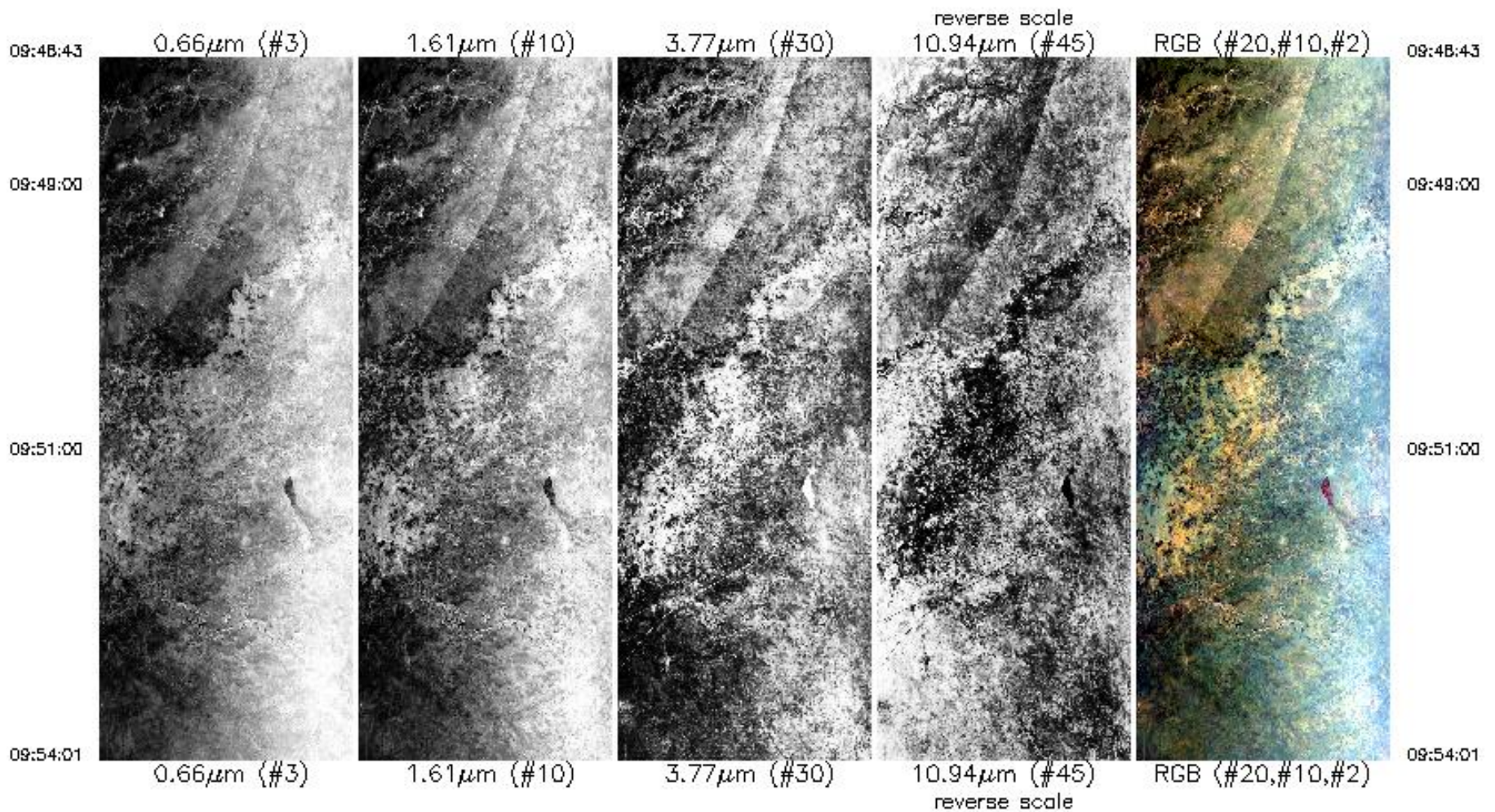
3.77 μm (#30)

10.94 μm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -20.0° , 25.9°
Lower Right Lat, Lon = -20.1° , 22.7°
Aircraft Heading = 272.9°
Solar Zenith = 32.9°
GPS Altitude = 20044. m (MSL)

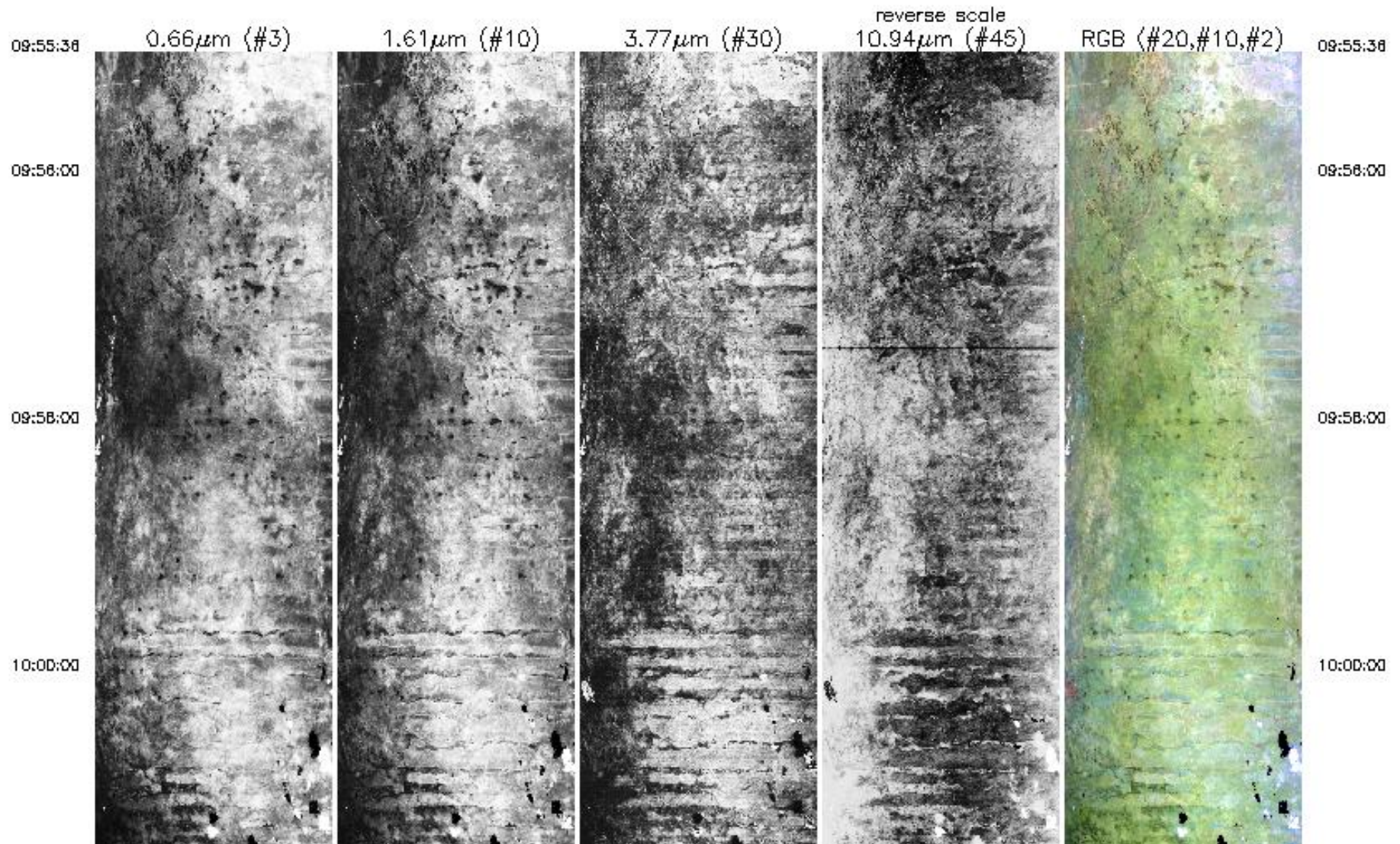
MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign – 27 Aug 2000
 Botswana
 Flight #00-152 Track #6



Upper Left Lat, Lon = -19.7°, 22.7°
 Lower Right Lat, Lon = -20.0°, 22.0°
 Aircraft Heading = 276.2°
 Solar Zenith = 31.3°
 GPS Altitude = 19968. m (MSL)

Upper Left Lat, Lon = -19.7° , 22.7°
Lower Right Lat, Lon = -20.0° , 22.0°
Aircraft Heading = 276.2°
Solar Zenith = 31.3°
GPS Altitude = 19968. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #7



10:00:00

10:02:00

10:04:00

10:06:00

10:08:47

10:00:00

10:02:00

10:04:00

10:06:00

10:08:47



0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)

reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -19.7°, 22.1°

Lower Right Lat, Lon = -18.2°, 22.0°

Aircraft Heading = 2.3°

Solar Zenith = 31.0°

10:08:47



0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)

RGB (#20,#10,#2)

10:08:47

reverse scale

Upper Left Lat, Lon = -19.7°, 22.1°
 Lower Right Lat, Lon = -18.2°, 22.0°
 Aircraft Heading = 2.3°
 Solar Zenith = 31.0°
 GPS Altitude = 20019. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign - 27 Aug 2000
 Botswana
 Flight #00-152 Track #8

10:13:08

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

reverse scale
10.94µm (#45)

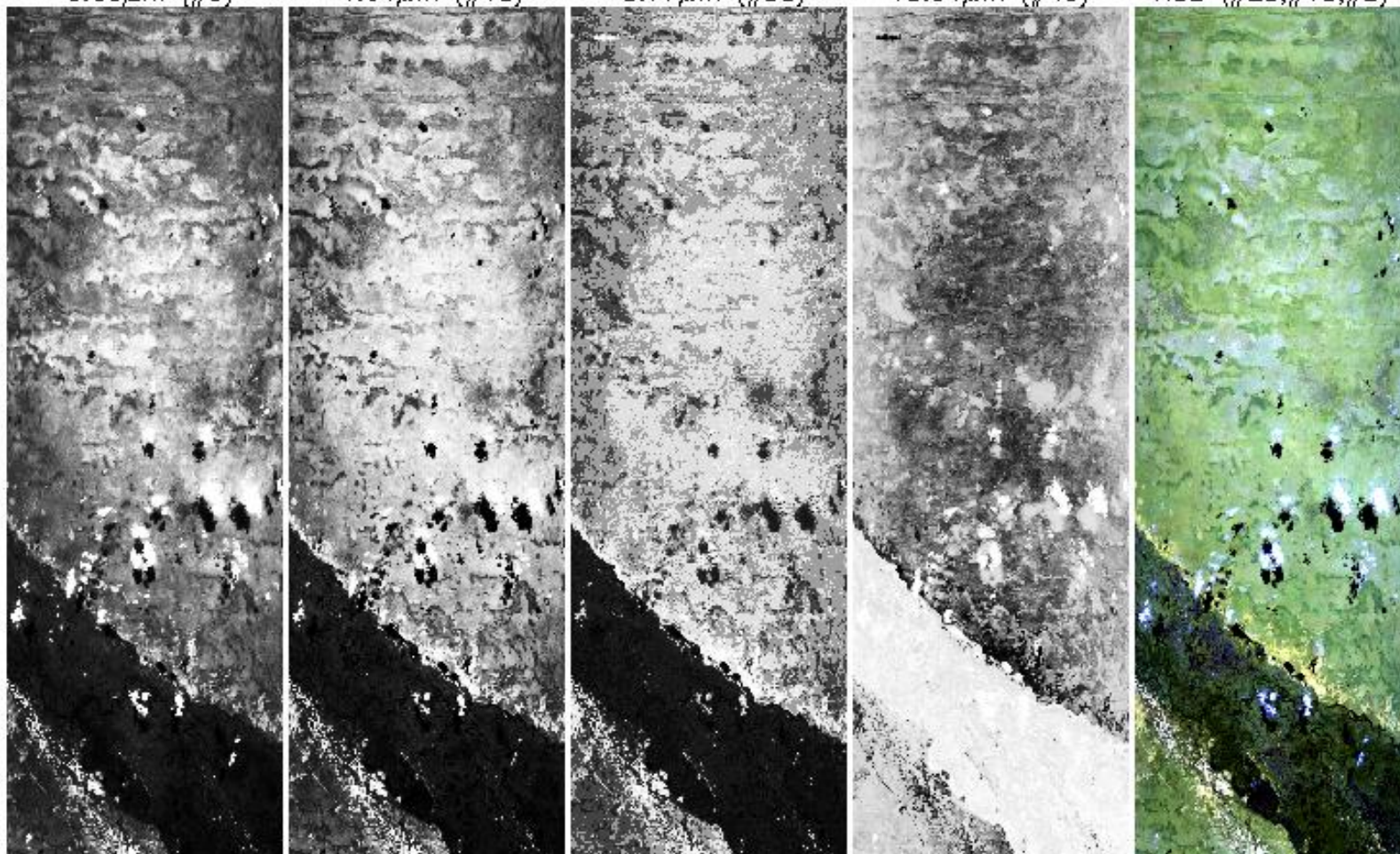
RGB (#20,#10,#2)

10:13:08

10:14:00

10:16:00

10:18:00



10:14:00

10:16:00

10:18:00

10:18:00



10:20:00



10:22:00



10:24:00



10:26:00



10:18:00

10:20:00

10:22:00

10:24:00

10:26:00

10:28:00

10:28:00

10:30:00

10:31:43



10:28:00

10:28:00

10:30:00

10:31:43

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -18.2°, 22.3°

Lower Right Lat, Lon = -20.4°, 22.2°

Aircraft Heading = 191.6°

Solar Zenith = 28.5°

GPS Altitude = 20013. m (MSL)

MODIS Airborne Simulator Browse Imagery

SAFARI 2000 Campaign - 27 Aug 2000

Botswana

Flight #00-152 Track #9

10:38:08

0.66µm (#3)

1.61µm (#10)

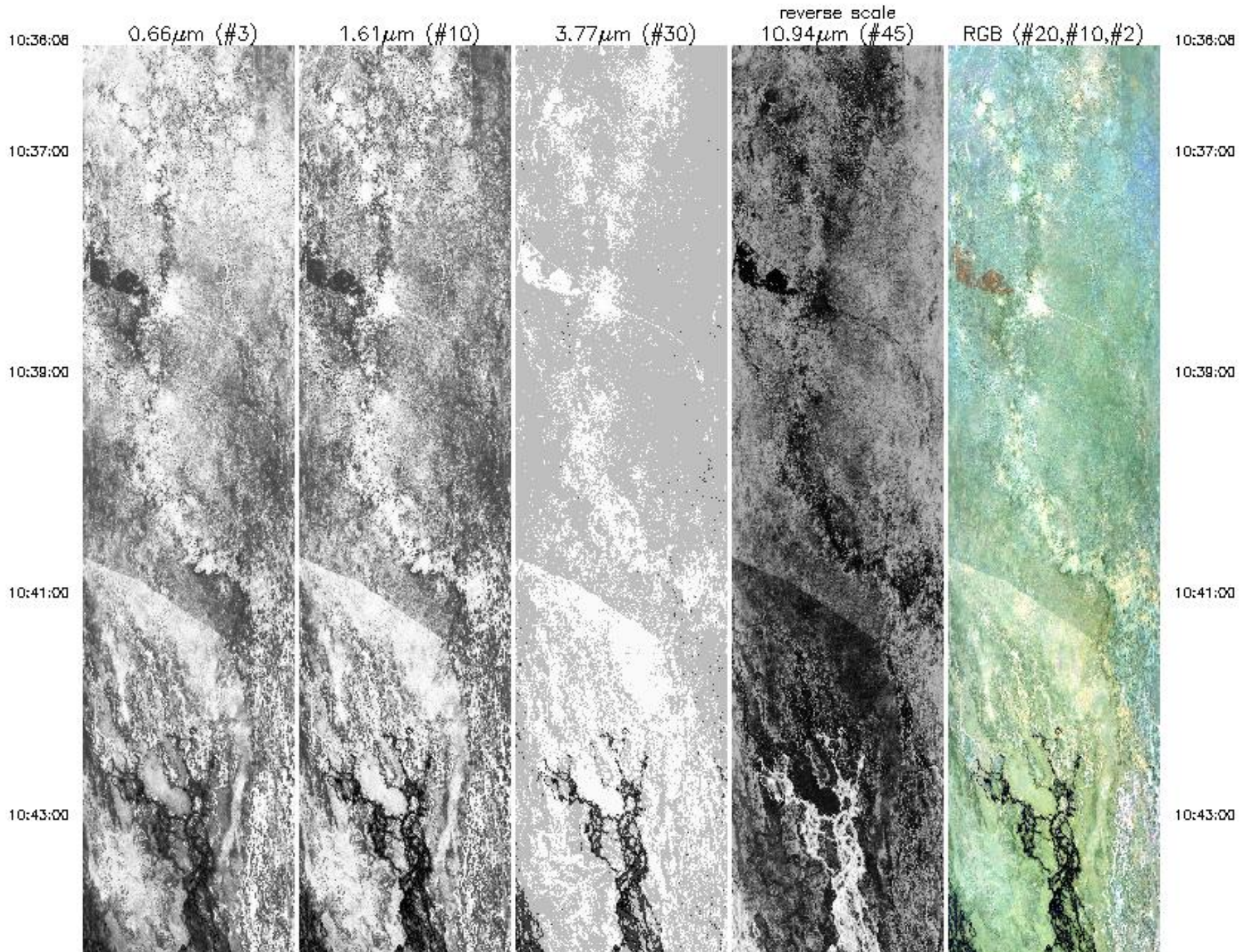
3.77µm (#30)

reverse scale
10.94µm (#45)

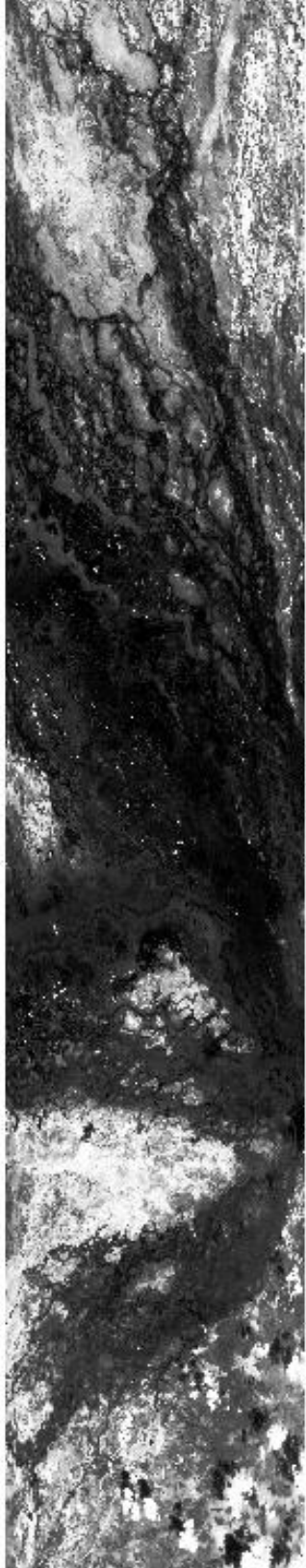
RGB (#20,#10,#2)

10:38:08

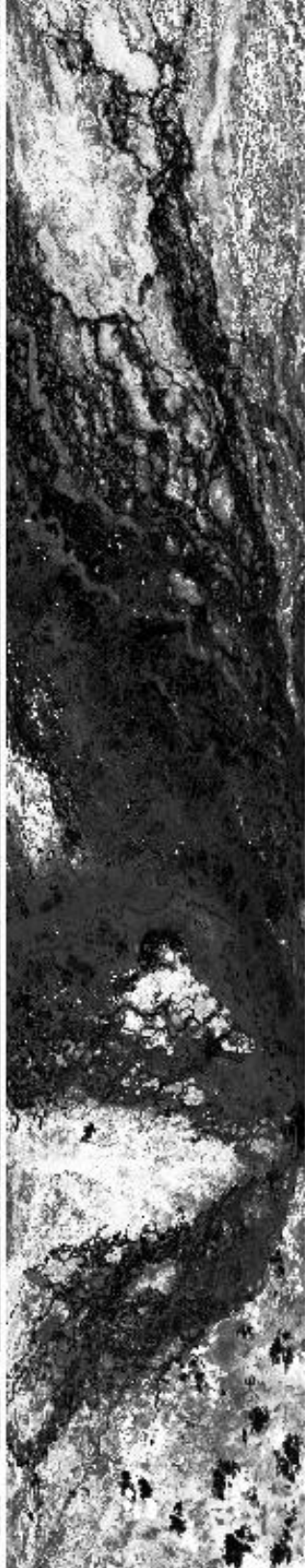
MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #9



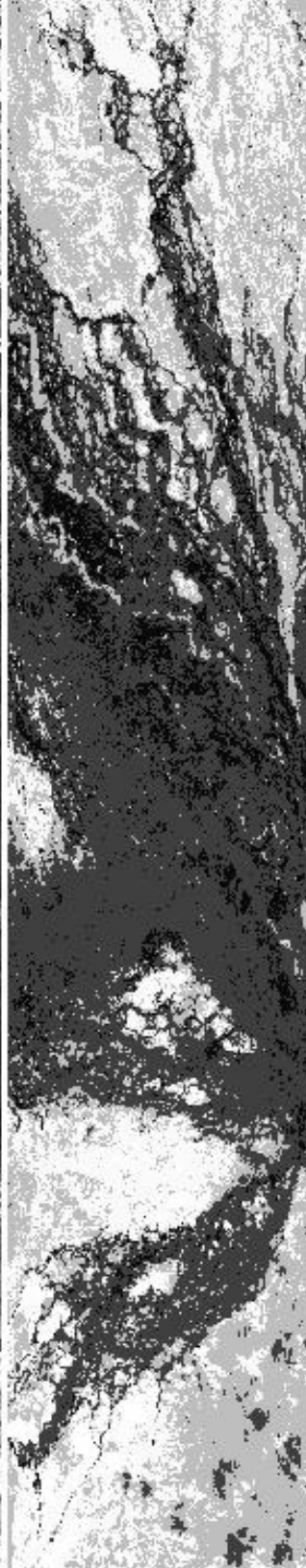
10:43:00



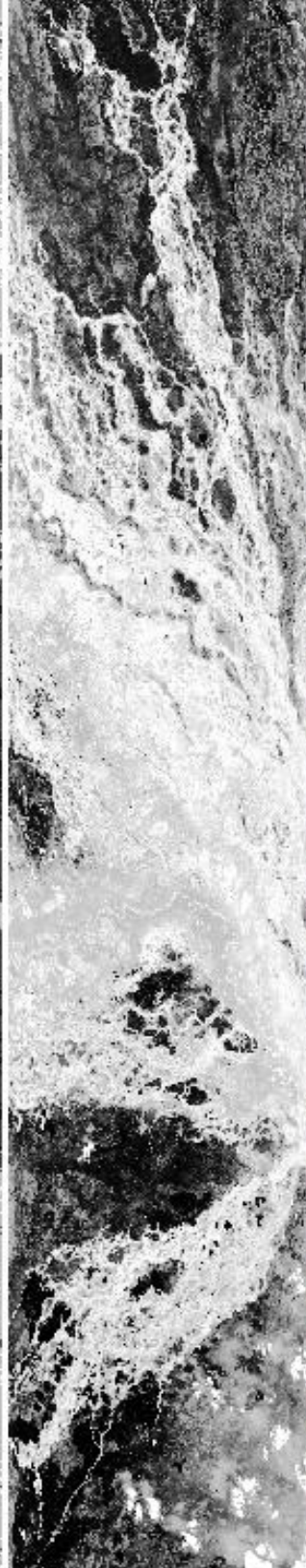
10:45:00



10:47:00



10:48:00



10:51:00



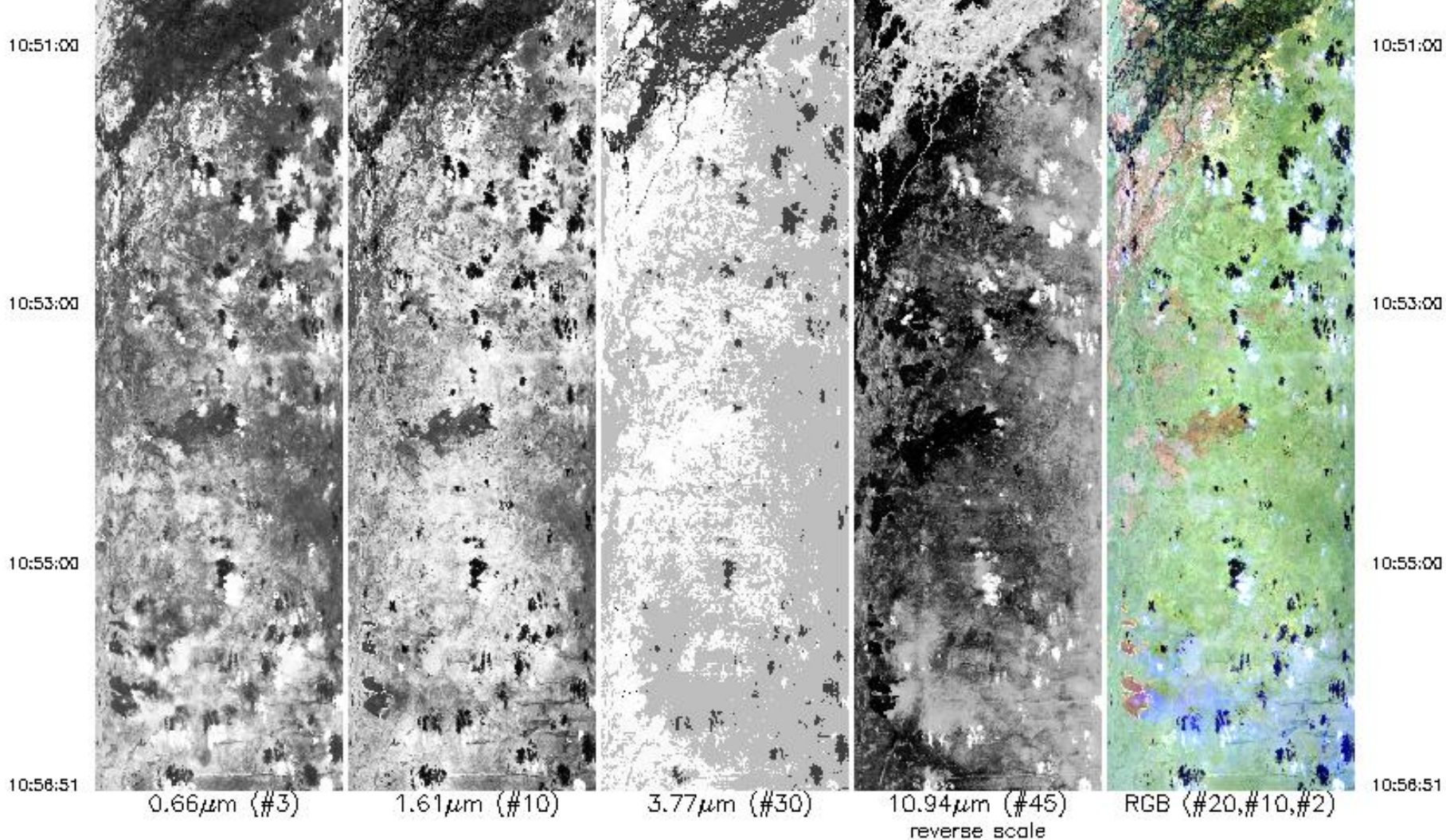
10:43:00

10:45:00

10:47:00

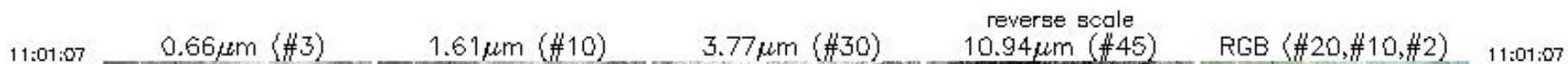
10:48:00

10:51:00

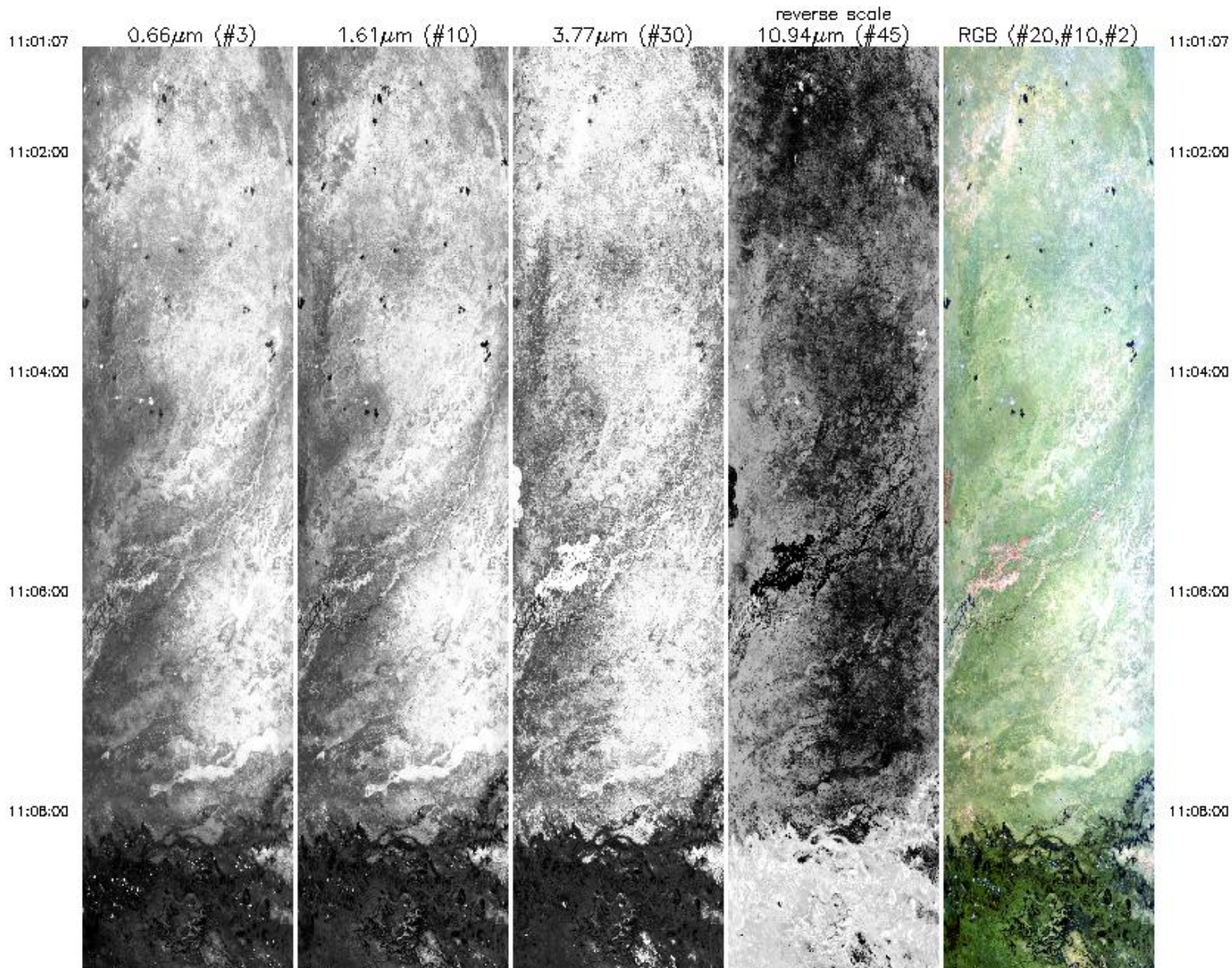


Upper Left Lat, Lon = -20.5° , 22.5°
 Lower Right Lat, Lon = -18.1° , 22.7°
 Aircraft Heading = 20.3°
 Solar Zenith = 30.3°
 GPS Altitude = 20078. m (MSL)

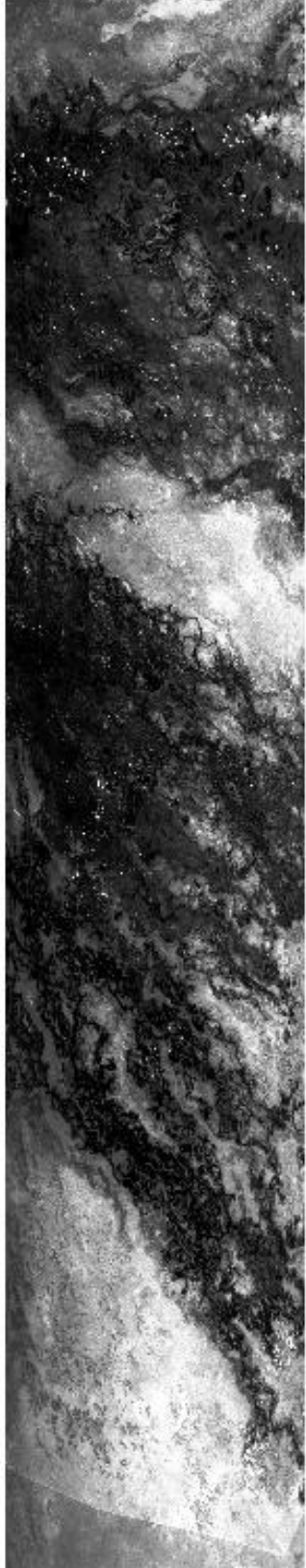
MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign - 27 Aug 2000
 Botswana
 Flight #00-152 Track #10



MOBIO Airborne Simulator Drone Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #10



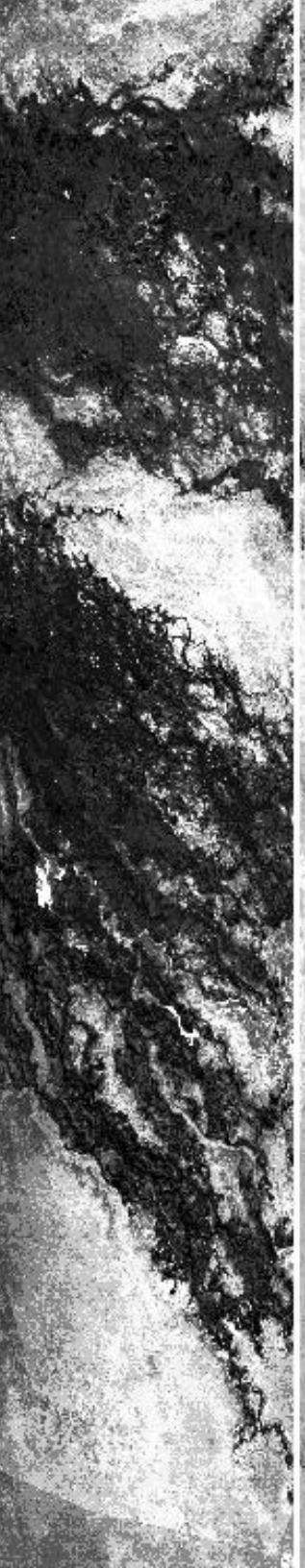
11:08:00



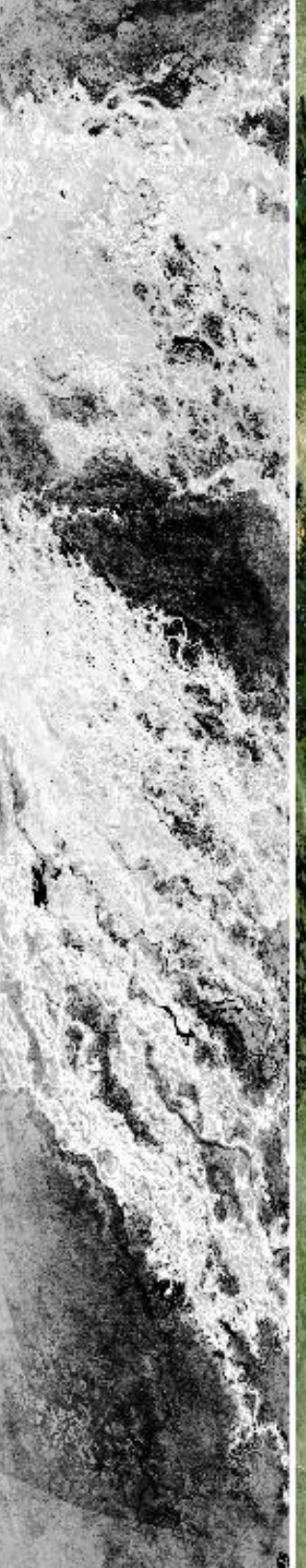
11:10:00



11:12:00



11:14:00



11:16:00



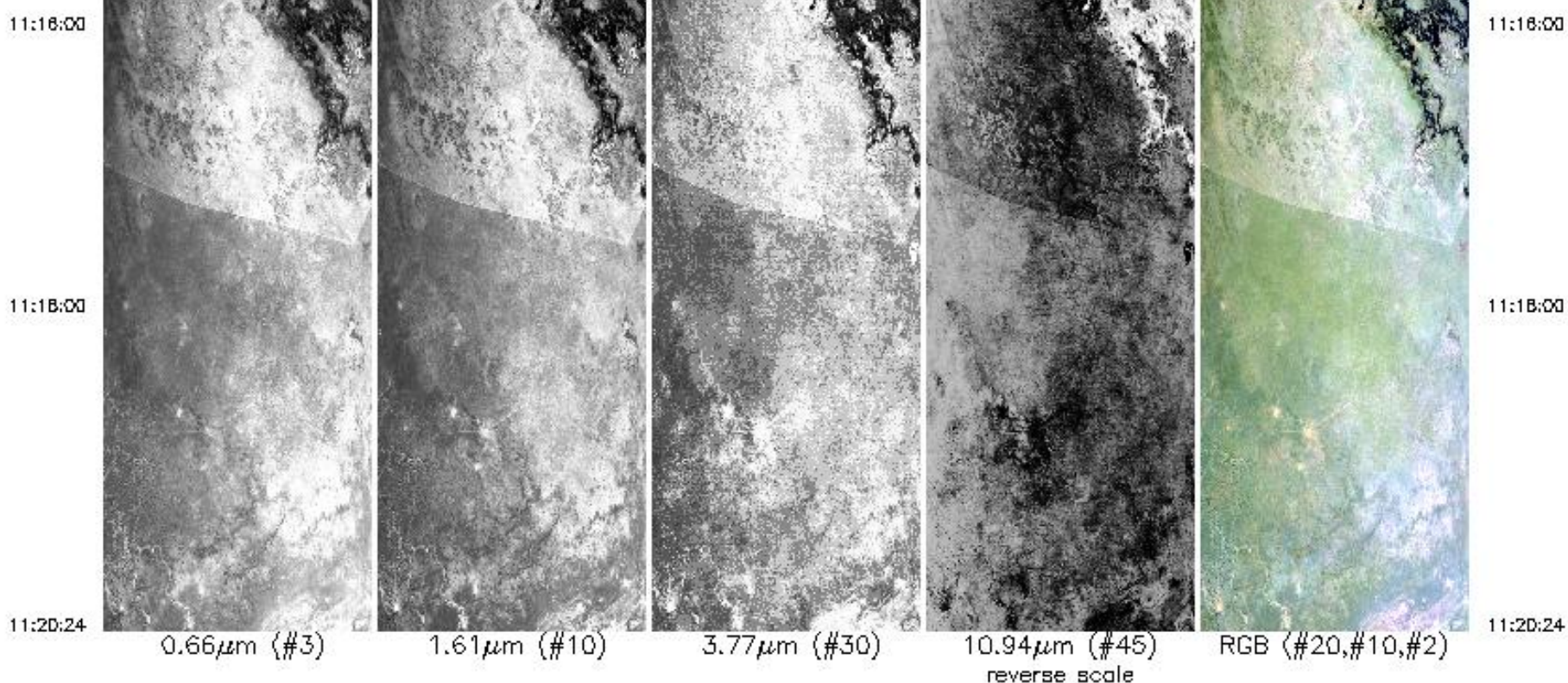
11:08:00

11:10:00

11:12:00

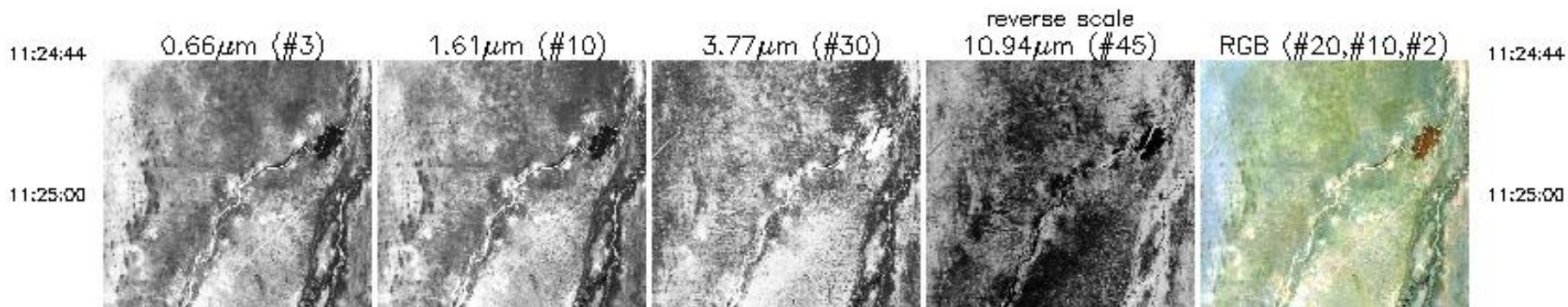
11:14:00

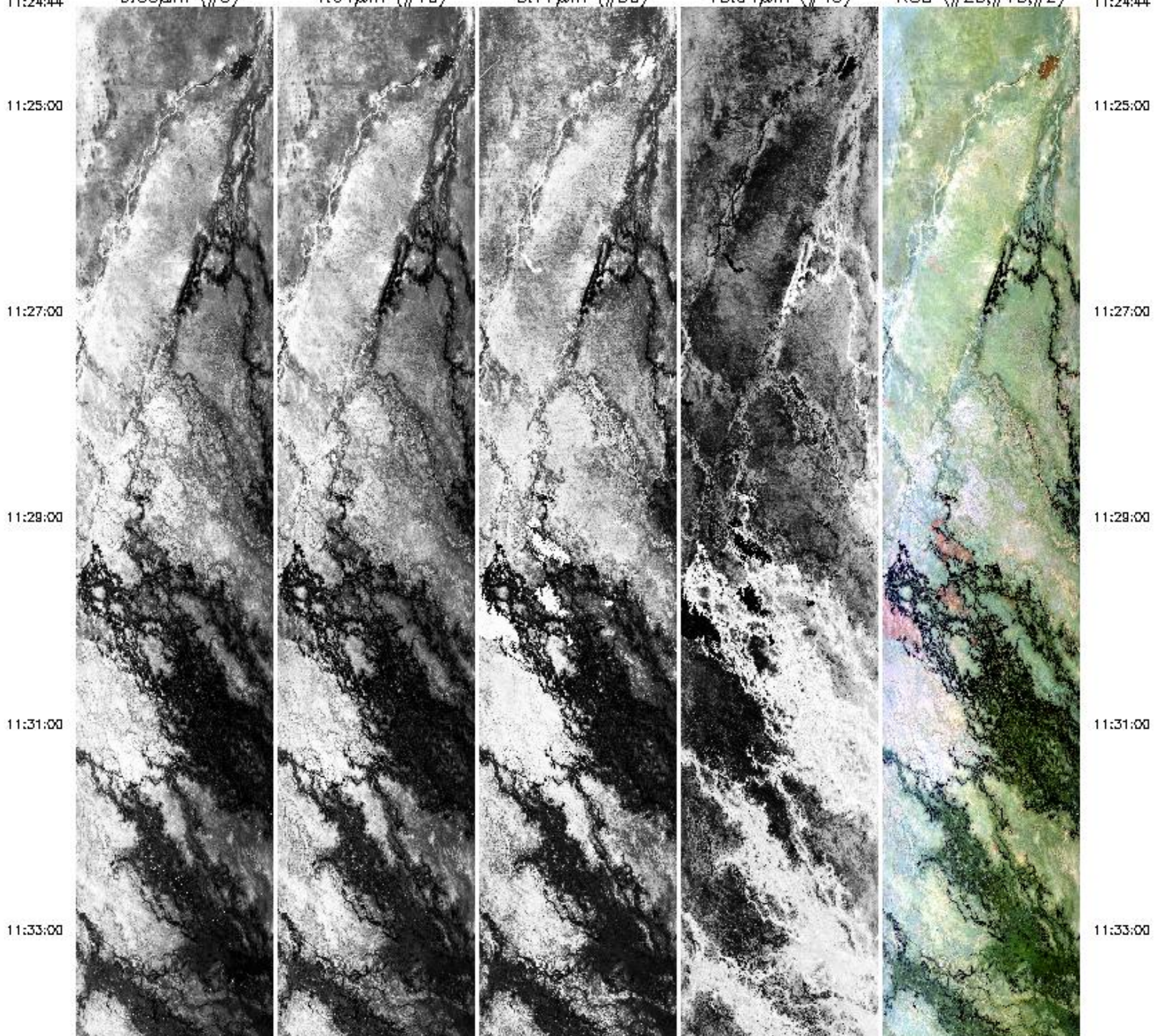
11:16:00



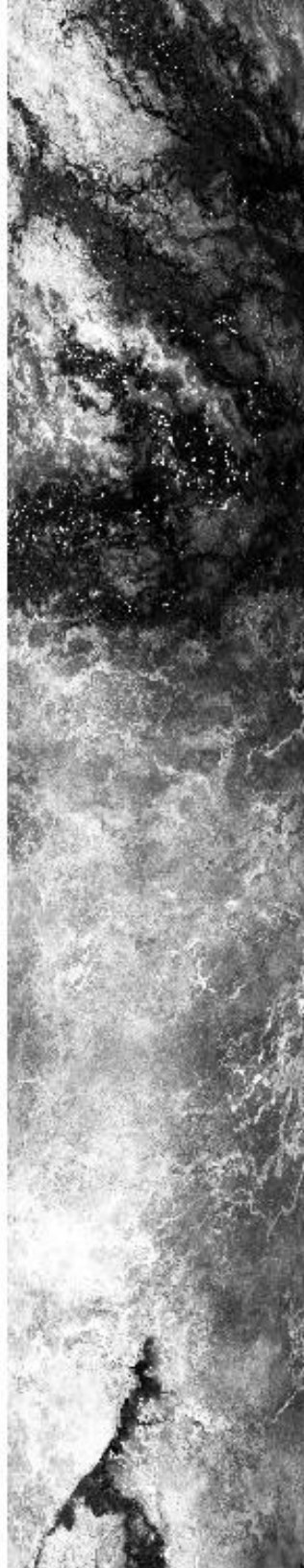
Upper Left Lat, Lon = -18.2° , 23.1°
 Lower Right Lat, Lon = -20.4° , 22.9°
 Aircraft Heading = 187.2°
 Solar Zenith = 29.1°
 GPS Altitude = 20167. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign - 27 Aug 2000
 Botswana/Namibia
 Flight #00-152 Track #11





11:33:00



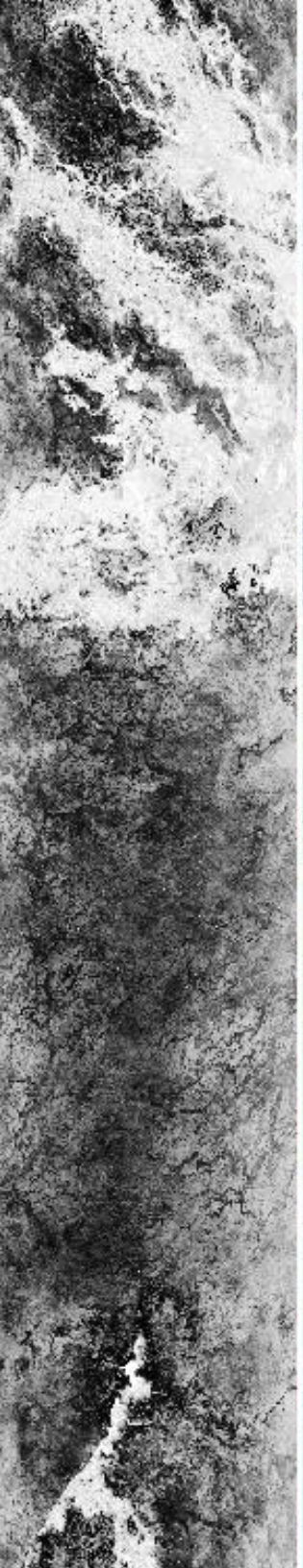
11:35:00



11:37:00



11:39:00



11:41:00



11:33:00

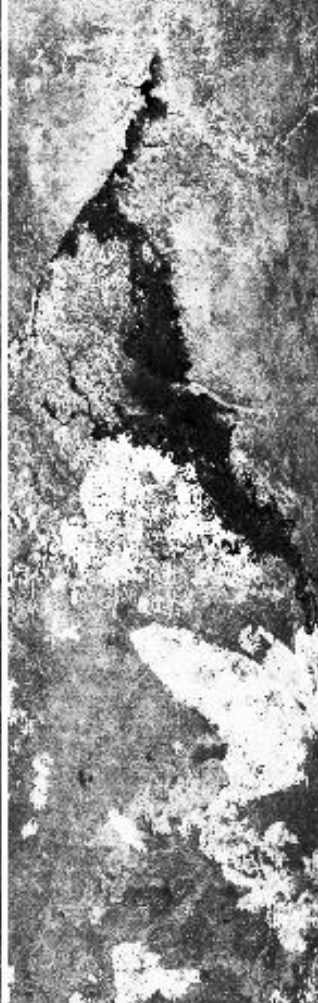
11:35:00

11:37:00

11:39:00

11:41:00

11:41:00
11:43:00
11:45:00
11:47:18



11:41:00
11:43:00
11:45:00
11:47:18

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -20.5° , 23.3°
Lower Right Lat, Lon = -17.9° , 23.5°
Aircraft Heading = 18.9°
Solar Zenith = 33.3°
GPS Altitude = 20109. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana/Namibia
Flight #00-152 Track #12

11:51:18

0.66µm (#3)

1.61µm (#10)

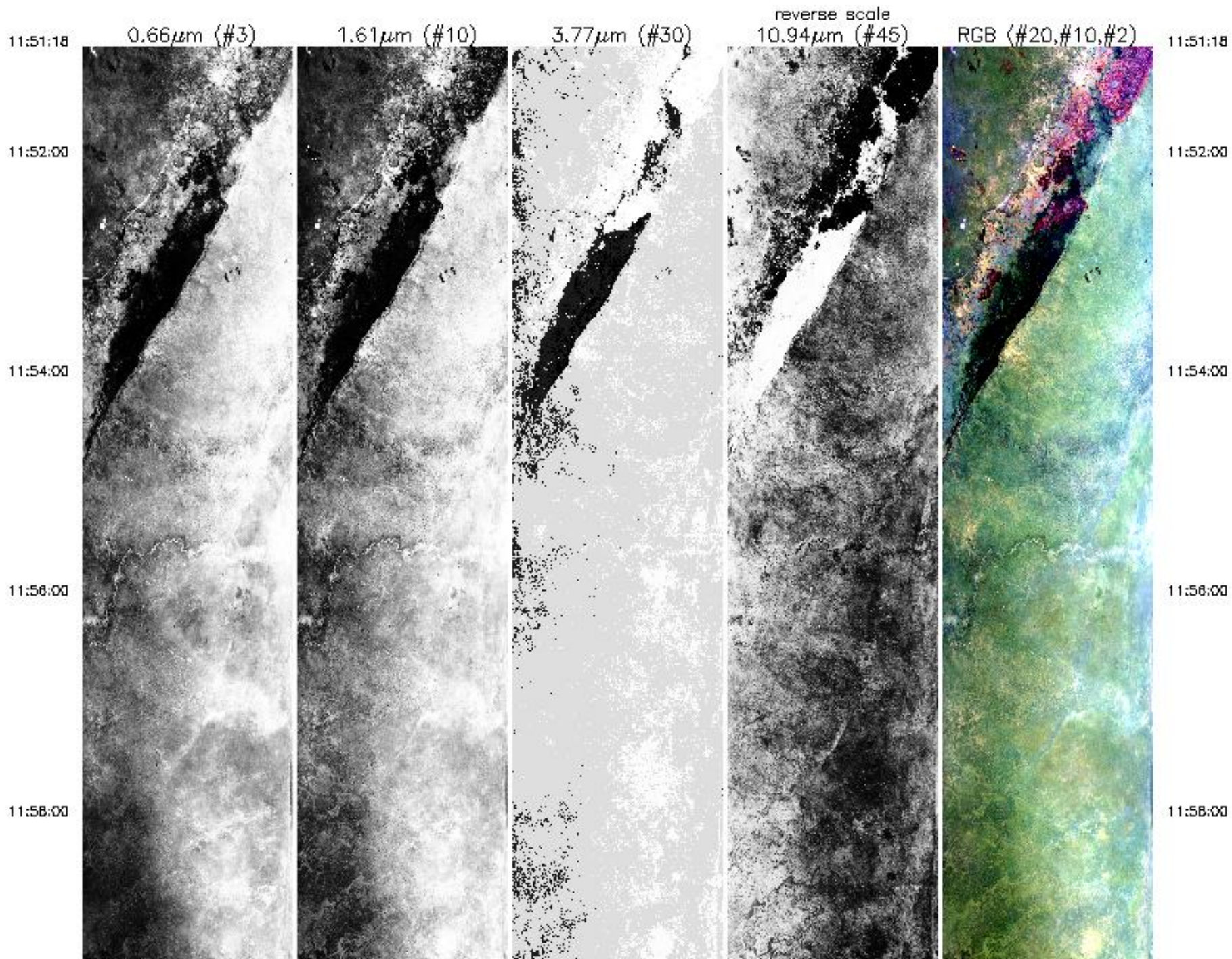
3.77µm (#30)

reverse scale
10.94µm (#45)

RGB (#20,#10,#2)

11:51:18

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana/Namibia
Flight #00-152 Track #12



11:58:00



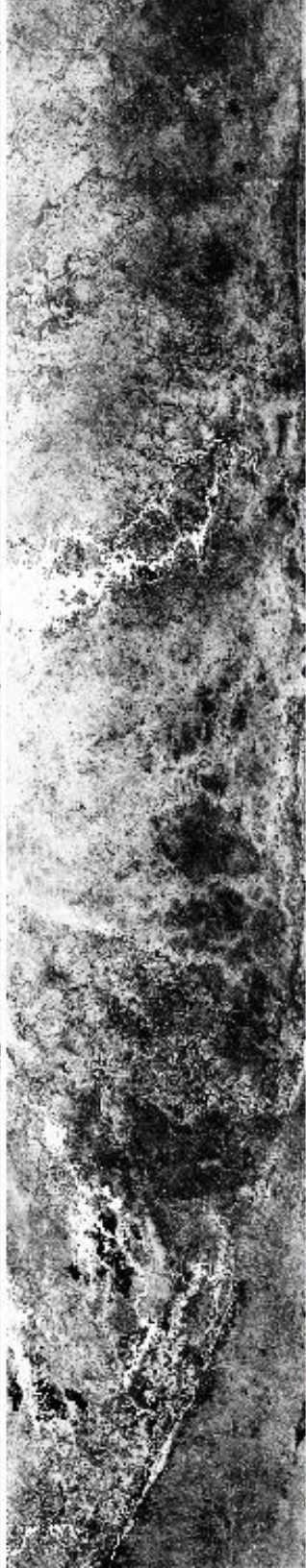
12:00:00



12:02:00



12:04:00



12:08:00



11:58:00

12:00:00

12:02:00

12:04:00

12:08:00

12:06:00



12:06:00



12:10:00



12:12:00



12:14:00



12:06:00



12:06:00



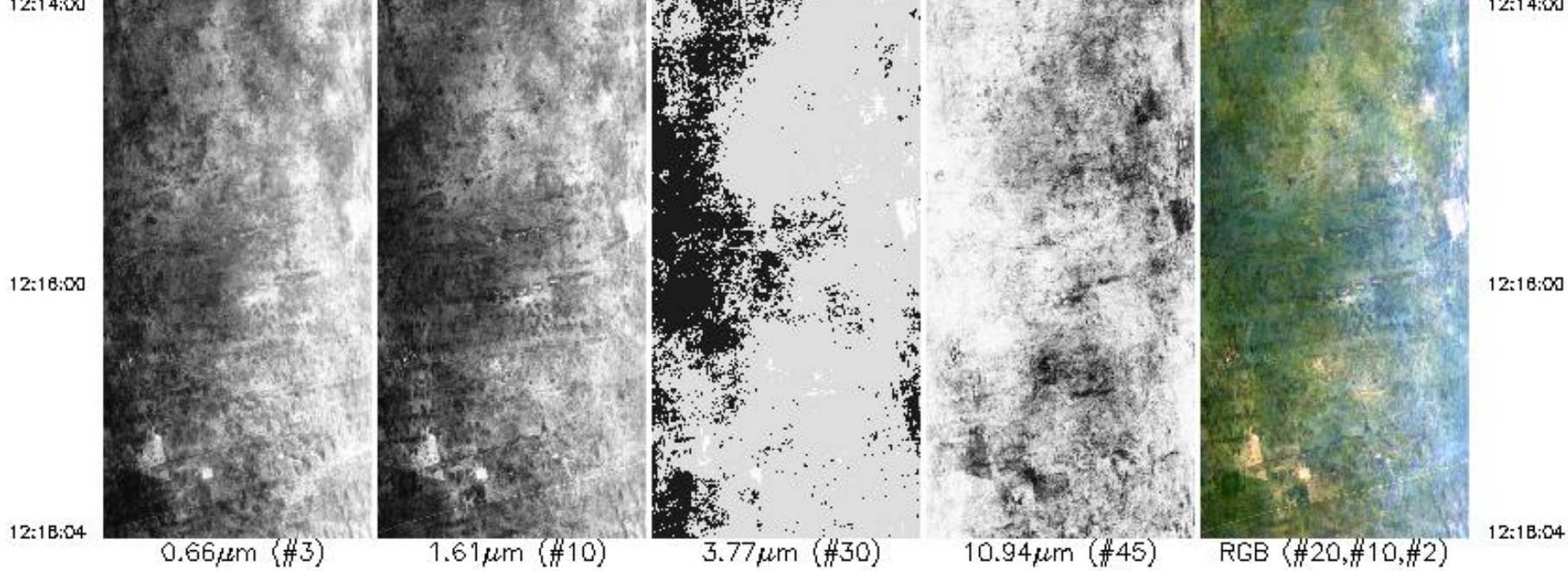
12:10:00



12:12:00



12:14:00



0.66µm (#3)

1.61µm (#10)

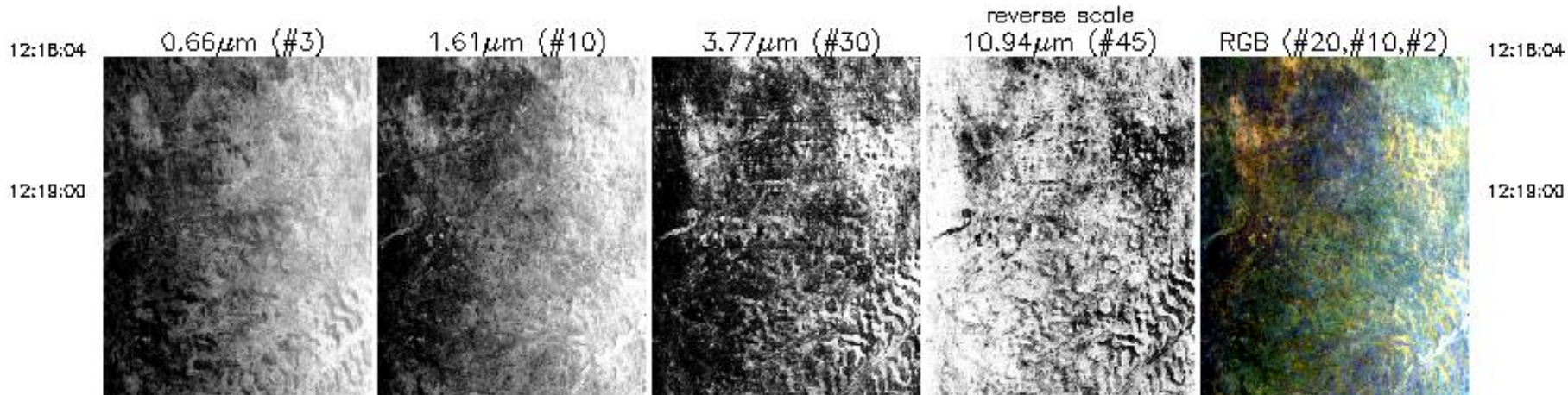
3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -18.0° , 23.8°
 Lower Right Lat, Lon = -21.1° , 23.5°
 Aircraft Heading = 188.1°
 Solar Zenith = 34.9°
 GPS Altitude = 20196. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign - 27 Aug 2000
 Botswana
 Flight #00-152 Track #13



0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

reverse scale
10.94µm (#45)

RGB (#20,#10,#2)

12:18:00



12:21:00



12:23:00



12:25:00



12:27:00



12:28:41

12:18:00

12:21:00

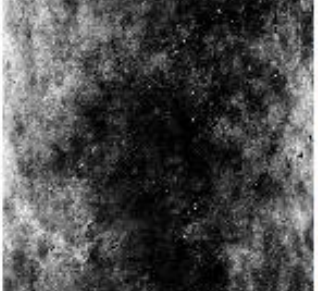
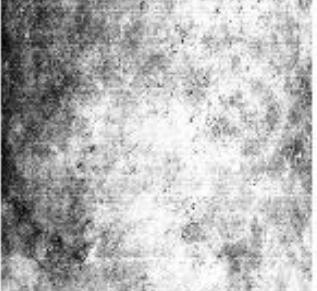
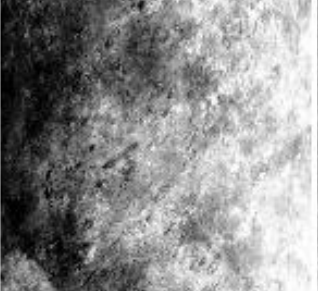
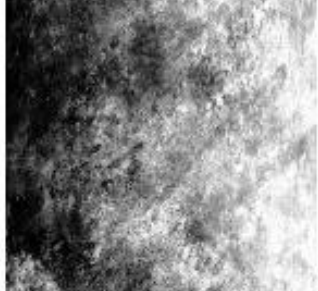
12:23:00

12:25:00

12:27:00

12:28:41

12:27:00



12:27:00

12:28:41

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

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

12:28:41

Upper Left Lat, Lon = -21.0°, 23.2°

Lower Right Lat, Lon = -22.2°, 23.3°

Aircraft Heading = 191.8°

Solar Zenith = 40.9°

GPS Altitude = 20148. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #14

12:30:00

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

reverse scale
10.94µm (#45)

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

12:30:00



12:31:00

12:31:00

12:33:00

12:33:00

12:33:00

12:35:00

12:37:00

12:39:00

12:40:58



0.66µm (#3)



1.61µm (#10)



3.77µm (#30)



10.94µm (#45)
reverse scale



RGB (#20,#10,#2)

12:33:00

12:35:00

12:37:00

12:39:00

12:40:58

Upper Left Lat, Lon = -22.1°, 23.0°

Lower Right Lat, Lon = -22.6°, 21.7°

Aircraft Heading = 260.3°

Solar Zenith = 43.5°

GPS Altitude = 20066. m (MSL)

12:40:58

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)

12:40:58

Upper Left Lat, Lon = -22.1°, 23.0°

Lower Right Lat, Lon = -22.6°, 21.7°

Aircraft Heading = 260.3°

Solar Zenith = 43.5°

GPS Altitude = 20066. m (MSL)

MODIS Airborne Simulator Browse Imagery
SAFARI 2000 Campaign - 27 Aug 2000
Botswana
Flight #00-152 Track #15

12:42:48

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)

12:42:48

12:43:00

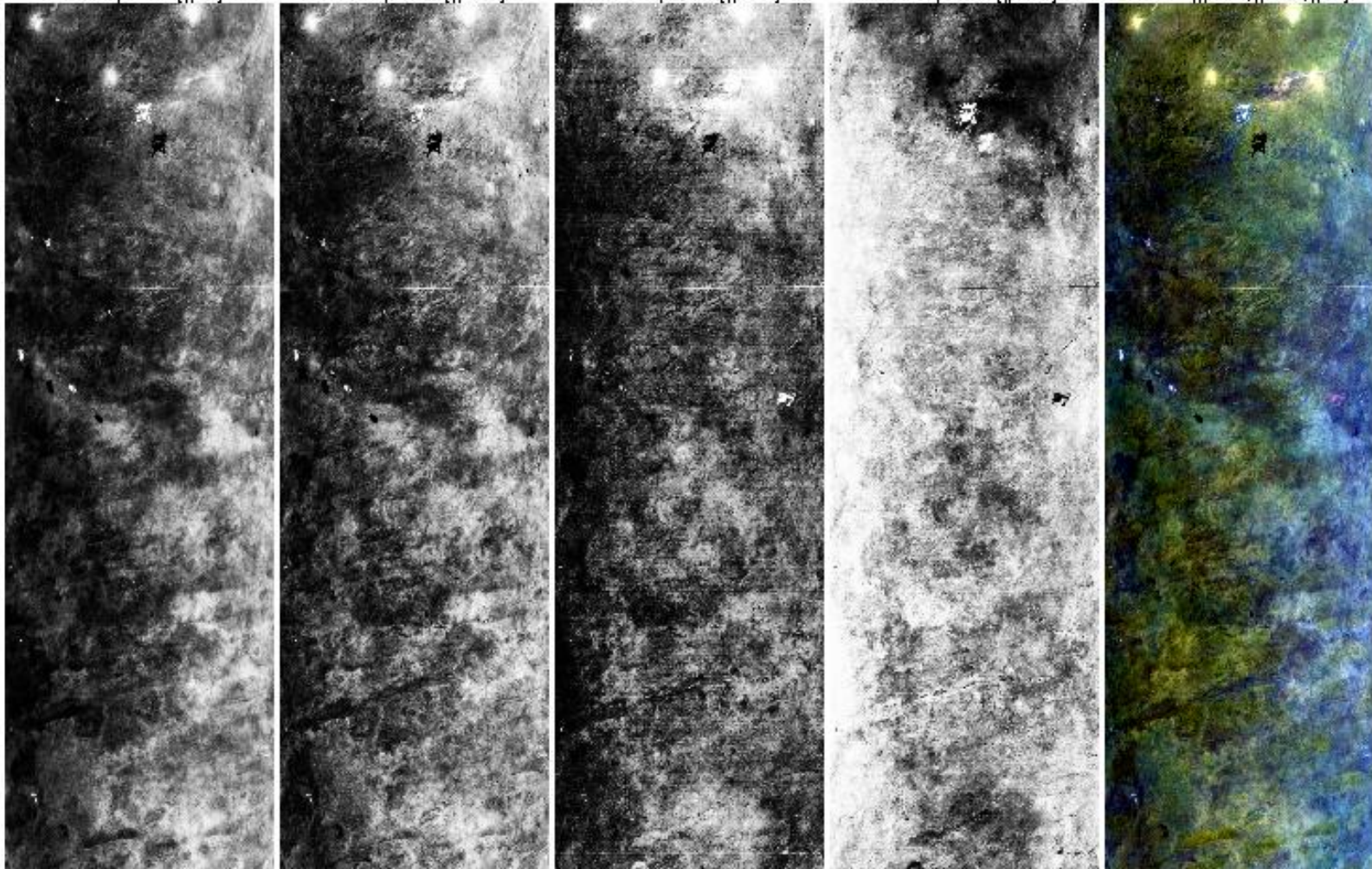
12:43:00

12:45:00

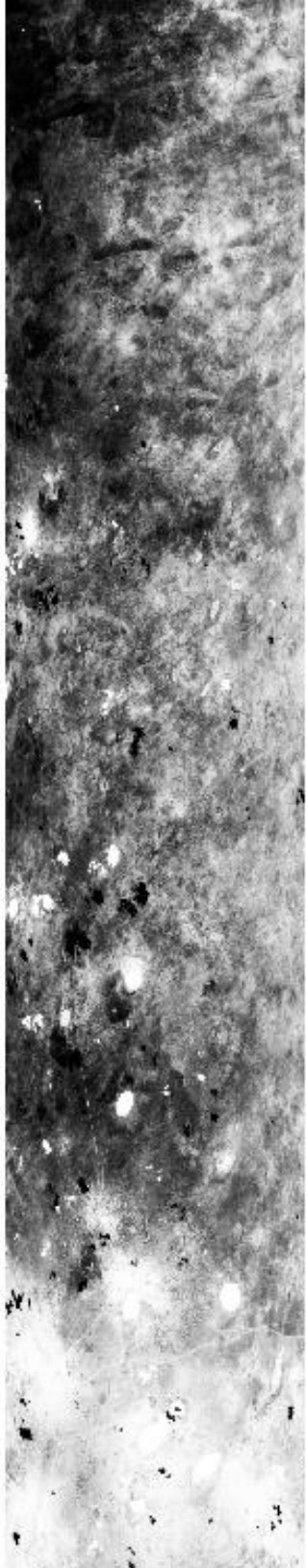
12:45:00

12:47:00

12:47:00



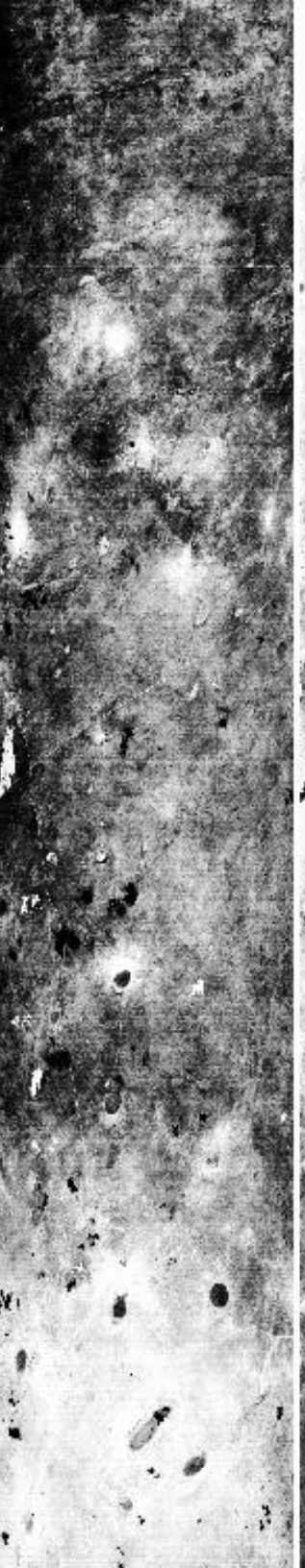
12:47:00



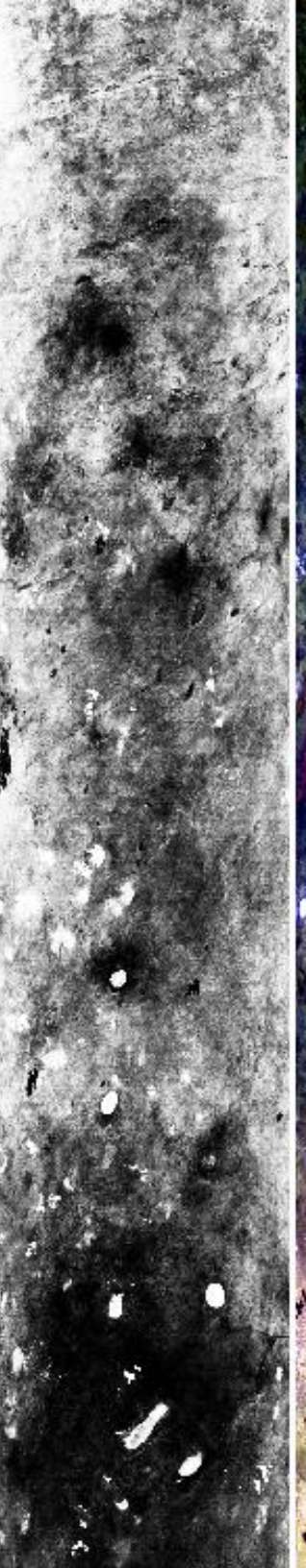
12:49:00



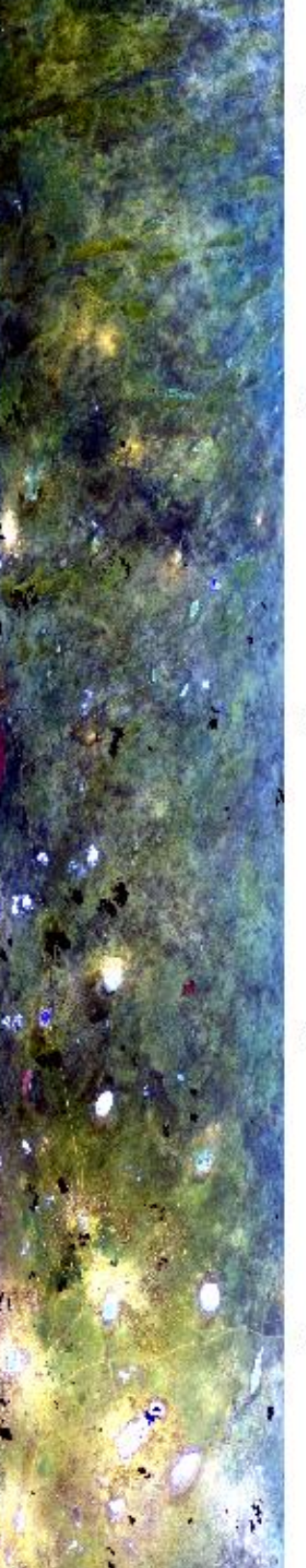
12:51:00



12:53:00



12:55:00



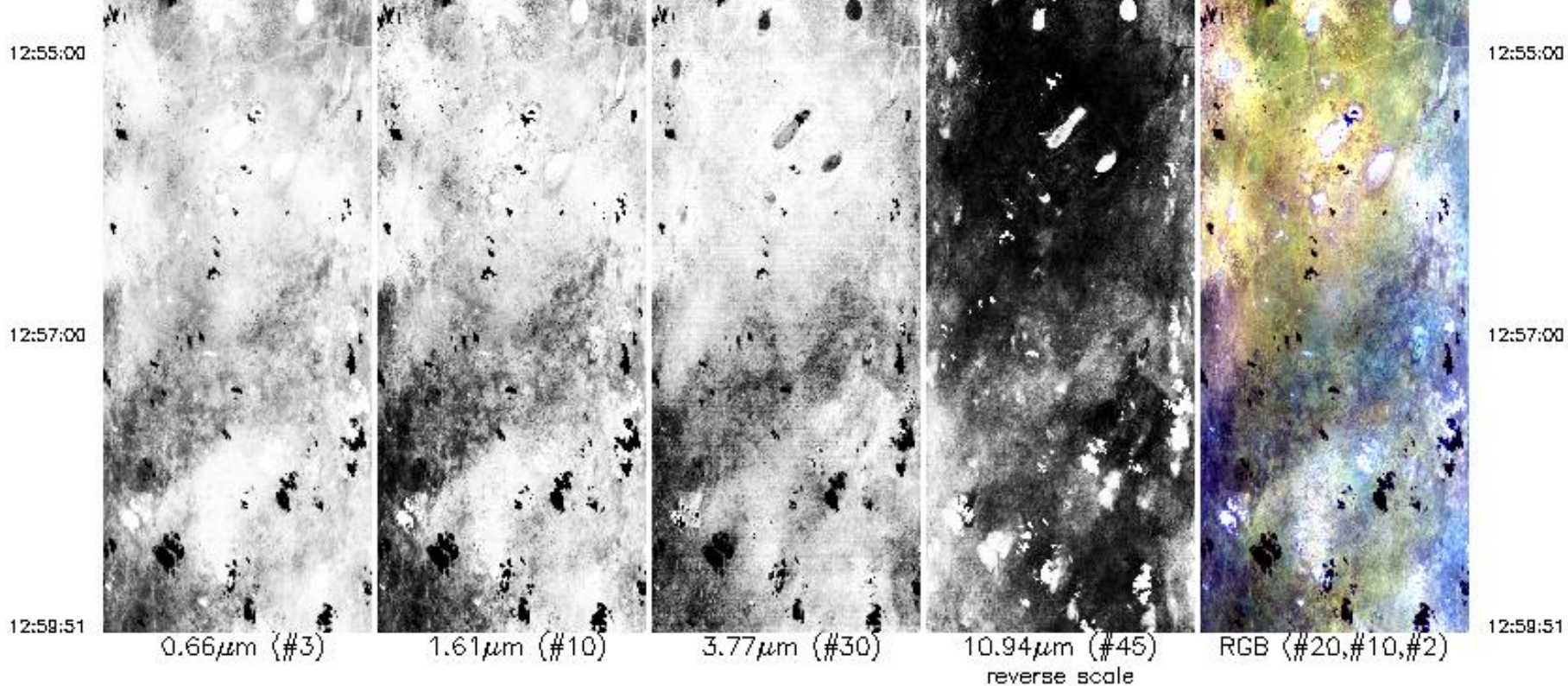
12:47:00

12:49:00

12:51:00

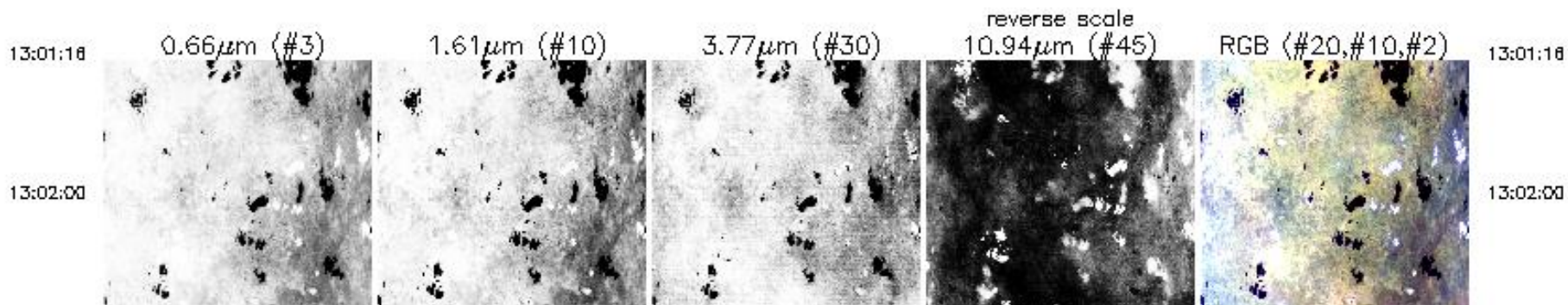
12:53:00

12:55:00



Upper Left Lat, Lon = -22.6° , 21.4°
 Lower Right Lat, Lon = -24.4° , 22.2°
 Aircraft Heading = 173.0°
 Solar Zenith = 44.8°
 GPS Altitude = 20098. m (MSL)

MODIS Airborne Simulator Browse Imagery
 SAFARI 2000 Campaign - 27 Aug 2000
 Botswana
 Flight #00-152 Track #16



13:01:16

0.55 μm (// 18)

1.0 μm (// 18)

0.7 μm (// 35)

0.5 μm (// 18)

RGB (// Z6, // 18, // 2)

13:01:16

13:02:00

13:02:00

13:04:00

13:04:00

13:06:00

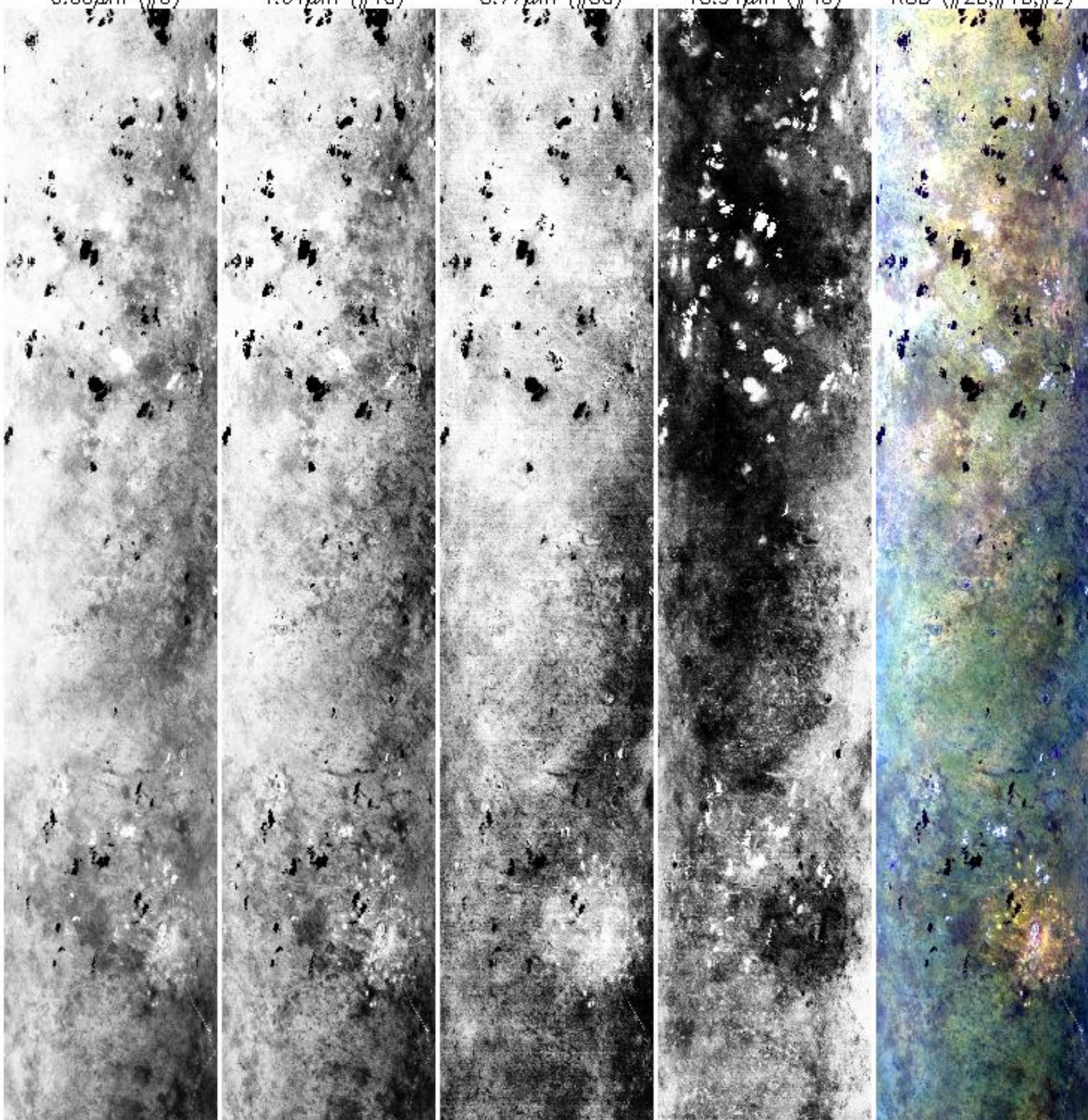
13:06:00

13:08:00

13:08:00

13:10:00

13:10:00



13:10:00



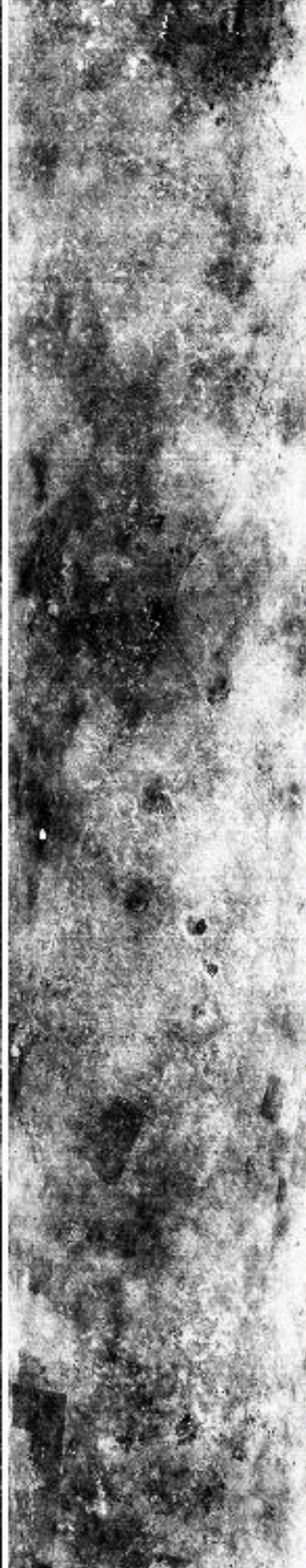
13:12:00



13:14:00



13:16:00



13:18:00



13:10:00

13:12:00

13:14:00

13:16:00

13:18:00

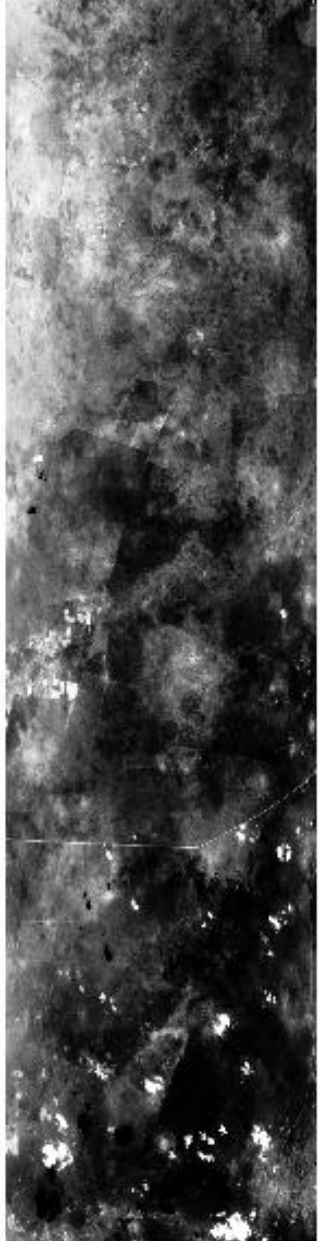
13:18:00

13:20:00

13:22:00

13:24:00

13:25:21



13:18:00

13:20:00

13:22:00

13:24:00

13:25:21

0.66µm (#3)

1.61µm (#10)

3.77µm (#30)

10.94µm (#45)
reverse scale

RGB (#20,#10,#2)

Upper Left Lat, Lon = -24.7°, 22.1°
 Lower Right Lat, Lon = -24.1°, 25.0°
 Aircraft Heading = 96.0°
 Solar Zenith = 49.9°
 GPS Altitude = 20249. m (MSL)

Upper Left Lat, Lon = -24.7, 22.1
Lower Right Lat, Lon = -24.1, 25.0°
Aircraft Heading = 96.0°
Solar Zenith = 49.9°
GPS Altitude = 20249. m (MSL)