Natural color RGB SCHEME

$$BYTE=255*[(channel-MIN)/(MAX-MIN)]^{1/GAMMA}$$

	channel	MIN	MAX	Gamma
R	B05(1.6μm)	0%	100%	1
G	B04(0.86μm)	0%	100%	1
B	B03(0.64μm)	0%	100%	1

Fig.1

2016-10-20_02:00

Air-mass RGB SCHEME

$$BYTE=255*[(channel-MIN)/(MAX-MIN)]^{1/GAMMA}$$

	channel	MIN	MAX	Gamma
R	B08(6.2μm)-B10(7.3μm)	-25K	0K	1
G	B12(9.7μm)-B13(10.8m)	-40K	5K	1
B	B08(6.2μm)	208K	243K	1

Fig.2
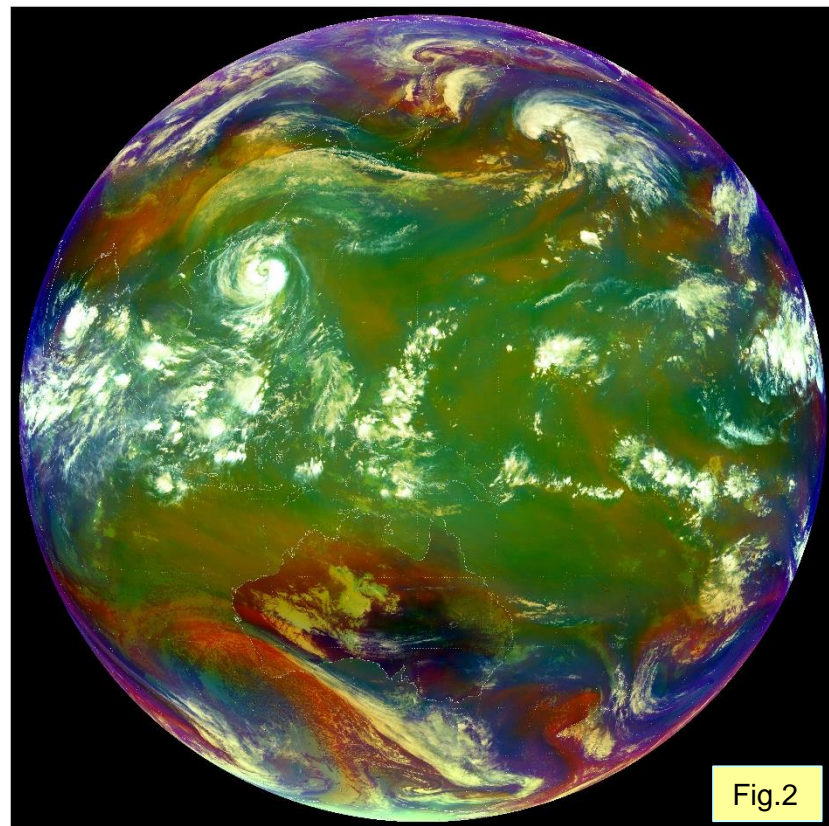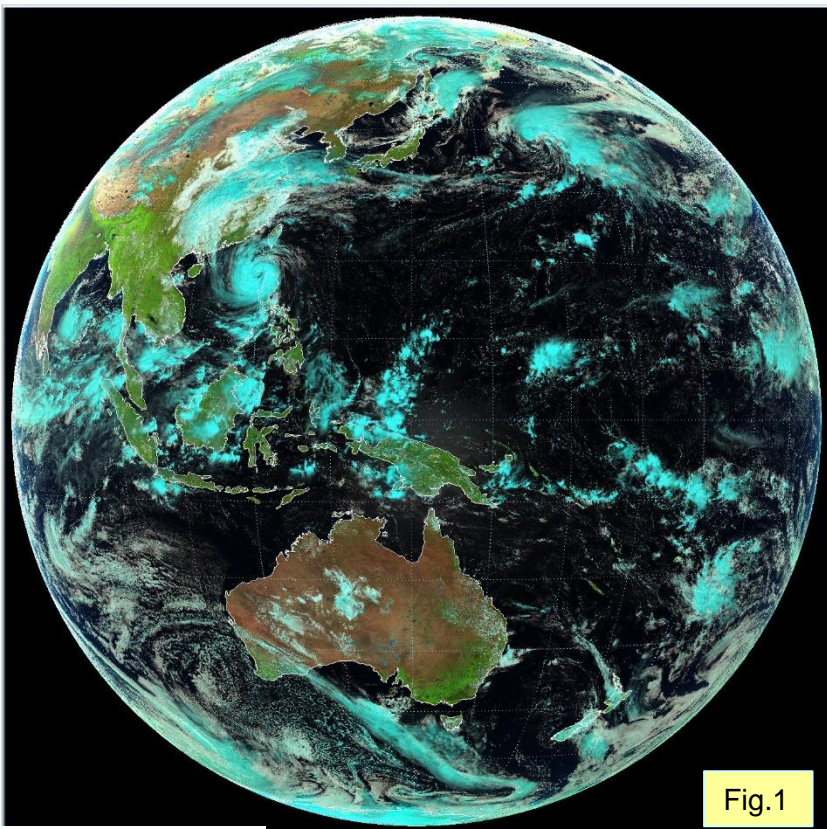
2016-10-20_02:00

Day Snow-Fog RGB SCHEME

$$BYTE=255*[(channel-MIN)/(MAX-MIN)]^{1/GAMMA}$$

	channel	MIN	MAX	Gamma
R	B04(0.86μm)	0%	100%	1.7
G	B05(1.6μm)	0%	70%	1.7
B	B07(3.9μm) *	0%	30%	1.7

Fig.3
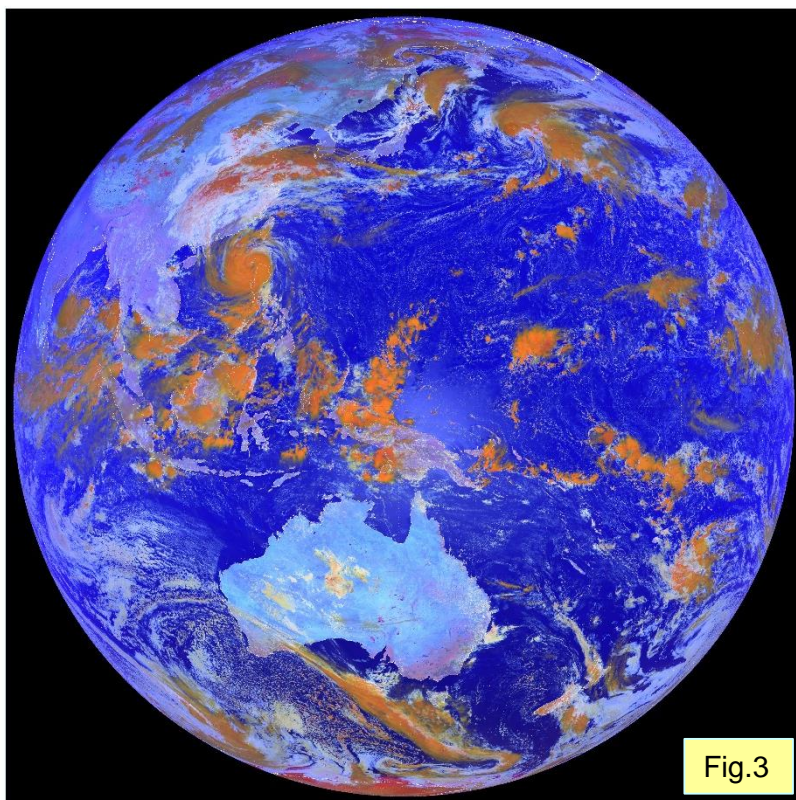
2016-10-20_02:00

Night microphysics RGB SCHEME

$$BYTE=255*[(channel-MIN)/(MAX-MIN)]^{1/GAMMA}$$

	channel	MIN	MAX	Gamma
R	B15(12.3μm)-B13(10.4μm)	-4K	2K	1
G	B13(10.4μm)-B07(3.9μm)	0K	10K	1
B	B13(10.4μm)	243K	293K	1

Fig.4
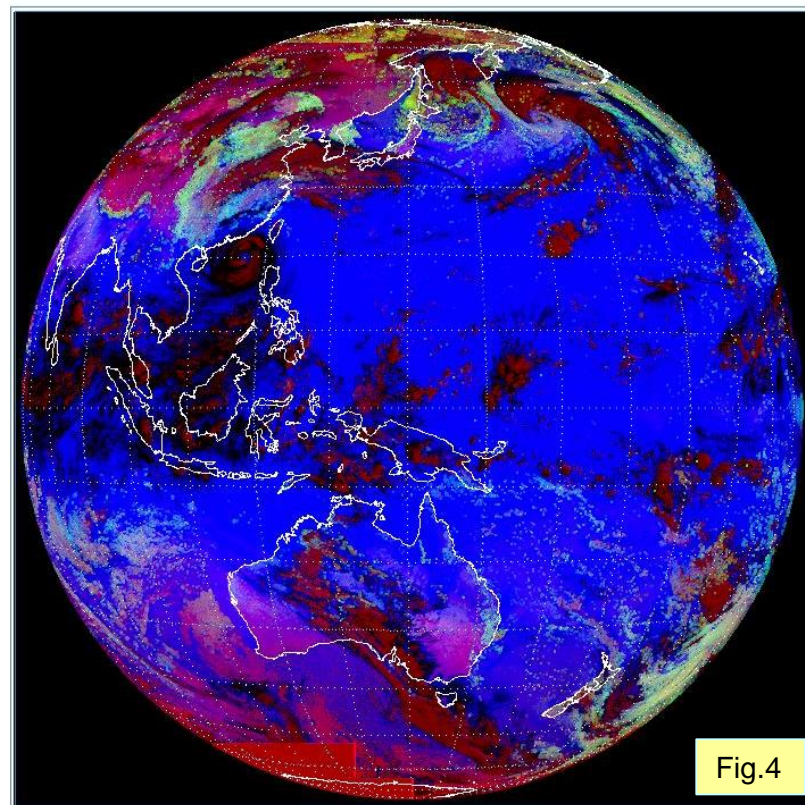
2016-10-20_14:00

dust RGB SCHEME

BYTE=255*[(channel-MIN)/(MAX-MIN)]$^{1/GAMMA}$

	channel	MIN	MAX	Gamma
R	B15(12.3µm)-B13(10.4µm)	-4K	2K	1
G	B13(10.4µm)-B11(8.6µm)	0K	15K	2.5
B	B13(10.4µm)	261k	289K	1

Fig.5

2016-08-02_03:30

Fig.6
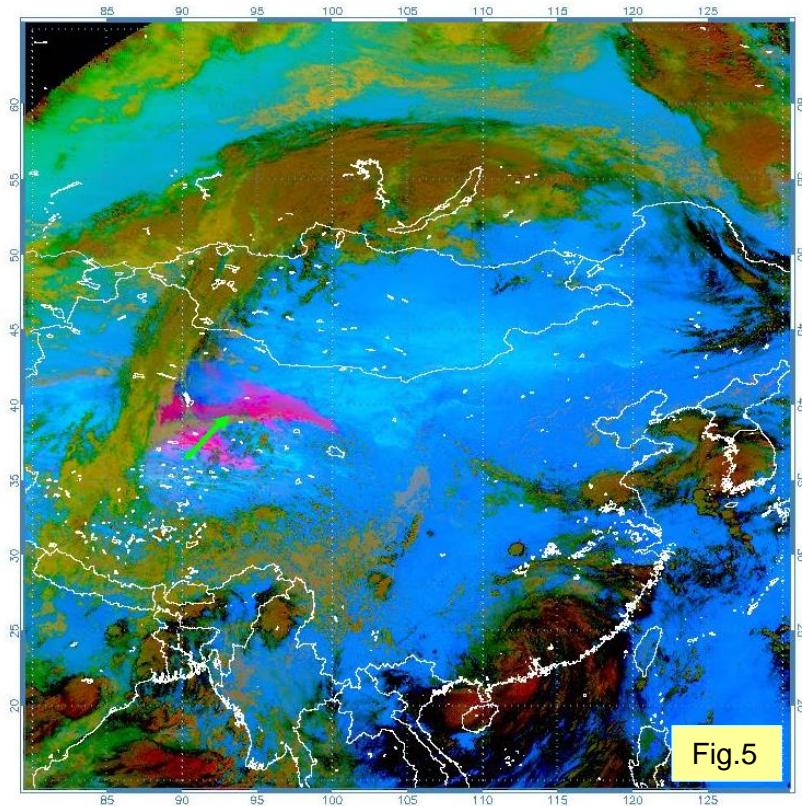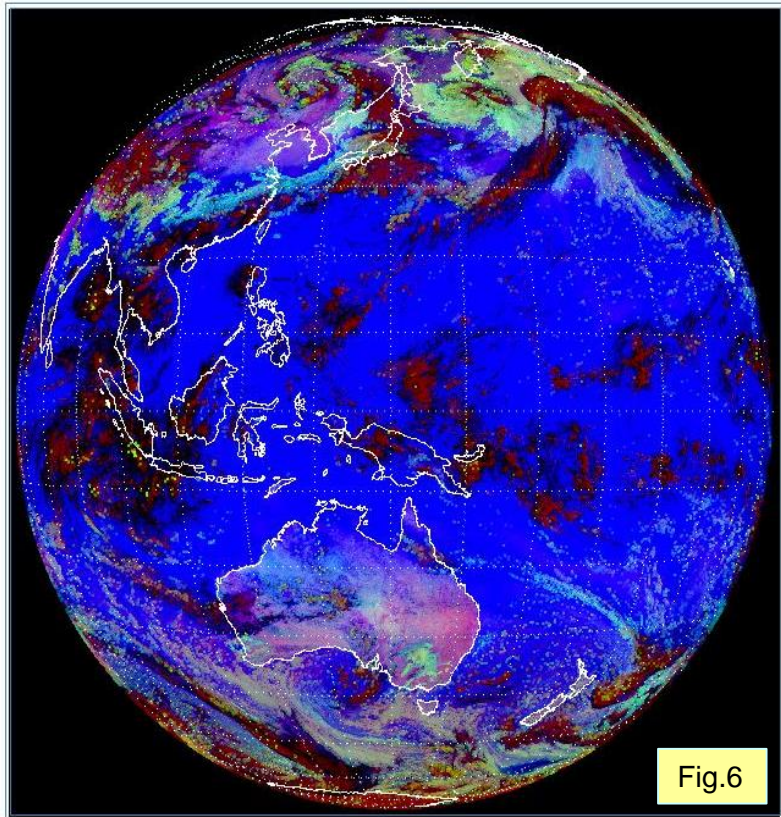
Himawari night microphysical RGB   2016_05_29_14:00

Fig.7
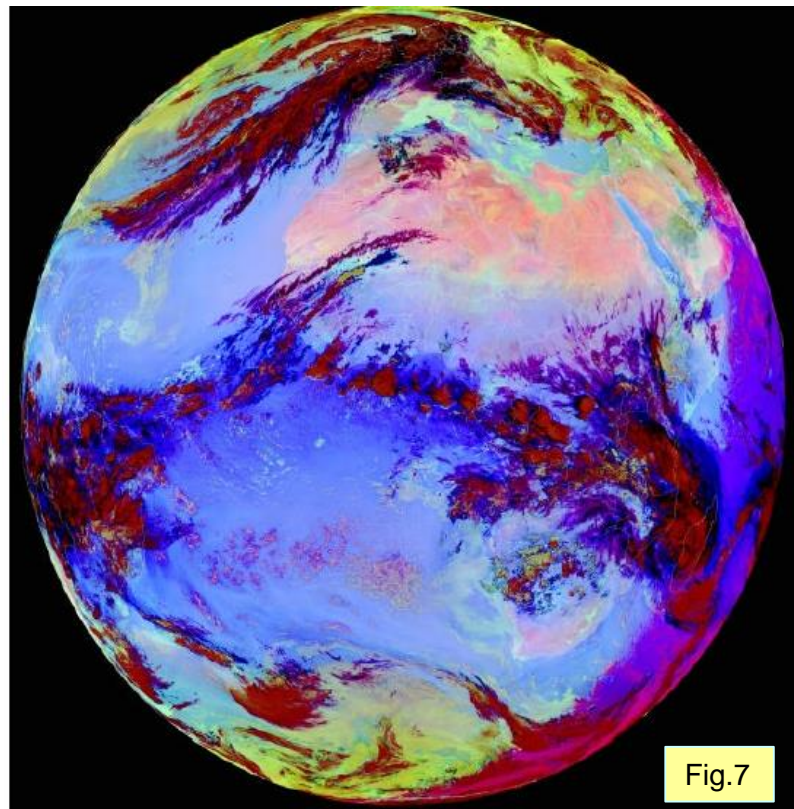
MSG-1
3 Feb 2004
03:00 UTC

We create a number of red-green-blue (RGB) composite of the observation image from Himawari-8 according the method described on website of JMA and EUMETSAT. Some RGB compositions are shown in Fig.1 to Fig.5. The parameters for creating each Fig is demonstrated on their up table.

Our question is that the color of some products created by us are very closed to the product on JMA's or EUMETSAT's website, such as "Natural color"(Fig.1) and "Air-mass"(Fig.2), but some of them are not. For example, Fig.6(our product) and Fig.7(EUMETSAT's product) both of them are "night microphysics" but colors between them are different obviously. Would you give us some advises about this problem?