

## MSG 051 - RED FD05 EARTH OBS

1 There will be one Earth Obs message per day, with the sites designated for Red or Blue  
2 teams.

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4 METs are at approximate time of the intersection of your orbit and the target site.

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RED

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8 MET 03/22:35 Florida-Georgia pass. Pensacola at nadir. Then Savannah at nadir. Near  
9 Vertical. Digital Camera 400mm. Atlas page 2.

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11 MET 03/23:02 Sudd swamplands, SE Sudan. Mapping pass left and right near nadir of the  
12 very poorly mapped swamplands just east of the White Nile. Low Earth orbit is an  
13 ideal altitude for landscape mapping. Near Vertical. Digital Camera 180mm 400mm.  
14 Atlas page 16.

15

16 MET 04/00:30 Relict river pattern, Niger. River patterns still visible in the southern Sahara  
17 (NE of the capital city of Niamey, on the Niger River) indicate high rainfall in the  
18 region at times in the past. For about 45 secs, please shoot near-nadir and off-nadir  
19 views left and right of track as you overfly a dense pattern of such paleo-courses.  
20 Near Vertical. Digital Camera 180mm. Atlas page 15.

21

22 MET 04/01:41 Great Plains pass. Missouri River valley and Kansas City (at nadir at  
23 01/01:42). Near Vertical. Digital Camera 180mm. Atlas page 2.

24

25 MET 04/04:49 New Mexico. Upper Rio Grande clear. Taos at nadir. Near Vertical. Digital  
26 Camera 180mm. Atlas page 2.

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28 MET 04/04:55 Florida Keys. Look left and right of track for views (including shallow  
29 seafloor views) of this complex ecosystem. Near Vertical. Atlas page 12.

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RED AND BLUE

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33 MET 04/08:06 Galapagos Islands. Break in cloud may allow panoramas oblique left of  
34 track. Oblique. Digital Camera 180mm. Atlas page 12.

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36 MET 04/09:03 Lower Yangtze valley. Mapping pass down this major valley requested.  
37 Poor weather for many weeks has prevented photography from ISS. Near Vertical.  
38 Digital Camera 180mm. Atlas pages 20, 21.

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BLUE

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42 MET 04/10:33 Mt Everest. Nadir pass. Break in cloud may allow photography. Near  
43 Vertical. Digital Camera 400mm. Atlas page 19.

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45 MET 04/10:40 Yellow River delta. Excellent nadir pass. In the last 15 yrs, the delta has  
46 expanded and contracted, and the mouth has changed position. Near Vertical.  
47 Digital Camera 400mm. Atlas page 21.

48

49 MET 04/12:14 Beijing region. Center of the metro region lies left. Then a nadir pass over  
50 Pyongyang, North Korea's capital city. South Korea's capital, Seoul, just right shortly  
51 after. Near Vertical. Digital Camera 180mm 400mm. Atlas page 9.

END OF PAGE 1 OF 2, MSG 051

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- 2 MET 04/15:23 SE China. Shoot patches of forest in the hills of SE China. The shape of
- 3 these dark green patches has started to change rapidly as urbanization and
- 4 economic growth have increased in the last decade. Near Vertical. Digital Camera
- 5 180mm. Atlas pages 20, 21.
- 6
- 7 MET 04/16:49 Smoke in South Asia. Pakistan and India continue under vast smoke palls.
- 8 Oblique views right of track will document the major source regions against the
- 9 Himalaya-Pamir Mts. Look for Pakistan's capital, Islamabad, right of track near (just
- 10 east of) the Indus River. Oblique. Digital Camera 180mm 400mm. Atlas page 19.
- 11
- 12 MET 04/16:53 Mt Everest. Second opportunity. Nadir pass. Break in cloud may allow
- 13 photography. Near Vertical. Digital Camera 400mm. Atlas page 19.
- 14
- 15 MET 04/16:56 Burma-Vietnam pass. Look left for the major north-south ranges. Then a
- 16 nadir pass down the narrow northern part of Vietnam. Near Vertical. Oblique.
- 17 Digital Camera 180mm. Atlas page 20.
- 18
- 19 MET 04/18:38 Java. Unusual cloud-free weather over the eastern end of the island. Look
- 20 right for panoramas of the volcanic chain. Look left for the major port city of
- 21 Surabaya. Third world cities are point sources for smog: look for smog plume which
- 22 has been seen on previous flights emanating from this city. Obliques with the sea as
- 23 backdrop help document this phenomenon. Oblique. Digital Camera 180mm. Atlas
- 24 page 25.
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