

MSG 105 - RED FD08 EARTH OBS

- 1 MET's are the estimated time that your orbit track intersects the target area.
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- 3 RED AND BLUE
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- 5 MET 06/18:29 SRI LANKA. Your track bisects this island nation from northwest to
6 southeast. As you exit the coast of extreme southern India begin documenting the
7 water color and land use of this populous country. The capital of Colombo lies just
8 right of track on the west coast. CVIS. Near Vertical. Digital Camera 180mm. Atlas
9 page 19.
- 10
- 11 MET 06/19:45 WESTERN MEDITERRANEAN DUST PLUMES. With yet another winter
12 storm system poised to enter the Mediterranean Basin, look for dust plumes moving
13 northward from their source areas in Algeria and Tunisia. CVIS. Oblique. Hasselblad
14 110mm. Atlas page 5.
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- 19 MET 06/21:12 AZORES ISLANDS. This pass runs the length of the picturesque Azores
20 archipelago. Use this break in the weather to map the details of as many of the
21 islands as possible. CVIS. Near Vertical. Digital Camera 400mm. Atlas pages 4, 14.
- 22
- 23 MET 06/22:50 CANARY ISLANDS. These islands are not usually photographed in detail
24 because their dramatic cloud formations usually become the target of interest. Try to
25 document the details of each volcanic peak, especially those of the larger islands of
26 Tenerife and Gran Canaria just to the left of track. CVIS. Near Vertical. Digital
27 Camera 400mm. Atlas page 14.
- 28
- 29 MET 06/22:56 FIRES OF THE SAHEL REGION, NORTH AFRICA. As you track
30 southeastward across northwest Africa from Mauritania and Mali, the desert
31 gradually gives way to the broad savanna known as the Sahel. Now several months
32 into the dry season, satellite imagery is detecting numerous fires there. Try for
33 oblique views to the right of track to detect both source points and smoke plumes.
34 CVIS. Oblique. Hasselblad 110mm. Atlas page 15.
- 35
- 36 MET 07/00:12 DELMARVA PENINSULA. Although stormy and bitterly cold winter has
37 gripped much of the eastern US so far this month, only a few cirrus are expected
38 over this target area at the time of your pass. CVIS. Near Vertical. Digital Camera
39 180mm. Atlas pages 2, 3.
- 40
- 41 MET 07/00:24 WEST AFRICAN DUST OVER THE EASTERN ATLANTIC. Strong easterly
42 air flow off of Mauritania and Senegal is transporting a large dust plume to the vicinity
43 of the Cape Verde Islands. Try to use oblique views to the right of track to capture
44 the color and extent of this phenomenon. Note the edges of the plume and where
45 possible, include the islands as reference points. CVIS. Hasselblad 110mm. Atlas
46 page 14.
- 47
- 48 MET 07/03:16 TEXAS-OKLAHOMA PANHANDLES. As you track east-southeastward into
49 the Southern Great Plains you will encounter the wide open spaces of north Texas
50 and western Oklahoma. Amarillo and Paloduro Canyon lie just left of track. CVIS.
51 Near Vertical. Digital Camera 180mm. Atlas page 2.

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1 MET 07/03:22 FLORIDA KEYS. This should be an excellent pass with good weather and
2 lighting to document details of the water color and development activities of this long
3 island chain. CVIS. Near Vertical. Digital Camera 400mm. Atlas page 12.

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5 MET 07/03:24 SANTO DOMINGO, DOMINICAN REPUBLIC. As you cross the beautiful
6 island of Hispanola from the northwest, look for a near-nadir view of this capital city
7 of just over three million, located on the southeastern coast. CVIS. Near Vertical.
8 Digital Camera 180mm. Atlas page 13.

9
10 MET 07/03:30 SURINAME. This small country, a former Dutch colony, is situated on the
11 northeast coast of South America. Its coastal wetlands are targets in a Canadian
12 Space Agency study of sea turtle migration. Document this area as you approach
13 from the northwest. Look for the tiny capital city of Paramaraibo, just right of track.
14 CVIS. Near Vertical. Digital Camera 180mm. Atlas page 13.

15
16 MET 07/04:55 CENTRAL AMERICAN VOLCANOS. Your pass is right down the spine of
17 volcanoes that run from Guatamala to Costa Rica. Use this well-illuminated pass to
18 obtain good views of as many of these features as clouds permit. Although no
19 volcanoes are active at this time, seismic activity is increasing in the Eastern Pacific
20 Rim. CVIS. Near Vertical. Digital Camera 180mm. Atlas page 12.

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23 RED AND BLUE

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25 MET 07/06:32 GALAPAGOS ISLANDS. These interesting islands lie well to the left of your
26 track. However, because the weather has improved for the time being, please use
27 this chance to document the color and extent of vegetation for the group as a whole.
28 Typically their rainfall increases and they greenup during an El Nino event. CVIS.
29 Oblique. Digital Camera 50mm. Atlas page 12.

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32 BLUE

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34 MET 07/13:45 NINGJING SHAN REGION OF SOUTHERN CHINA. This rugged mountain
35 range with its complex of abruptly folded ridges is the headwaters for three of
36 southeast Asia's major rivers, the Irrawaddy, Mekong, and Red. Take advantage of
37 the improving weather here to acquire a good regional context view well to the right
38 of track. CVIS. Oblique. Digital Camera 180mm. Atlas page 20.

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40 MET 07/15:23 RED RIVER DELTA REGION. Weather rarely permits good context views of
41 this region of northern Vietnam. Look well to the left of track for a good context view
42 of the land use patterns and the extent of sediment plumes in this populous delta.
43 CVIS. Oblique. Digital Camera 180mm. Atlas page 20.

44
45 MET 07/15:28 REEFS OF PALAWAN AND THE SULU SEA, PHILIPPINES. Good nadir
46 views of the details of the reefs and subsurface structures are requested for this
47 region south and west of the main islands of the Philippines. Photos will be used to
48 support the global mapping and inventory efforts of the Reefbase Project. CVIS.
49 Near Vertical. Digital Camera 400mm. Atlas pages 20, 21.

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1 MET 07/15:36 GREAT BARRIER REEF, QUEENSLAND, AUSTRALIA. We have few
2 detailed photos of the complex reef patterns in this portion of the Great Barrier Reef.
3 As you track southeastward down the coast of the Cape York Peninsula, try for nadir
4 views of the details of the reef structures. CVIS. Near Vertical. Digital Camera
5 400mm. Atlas page 28.
6

7 MET 07/16:51 SMOG ON THE GANGES PLAIN, NORTHERN INDIA. A chilled blanket of
8 smog has plagued the Ganges Plain for weeks now. From your vantage point over
9 the northern Deccan Plateau, look left of track toward the Himalayas and attempt to
10 document the extent both vertically and horizontally of this immense aerosol plume,
11 especially noting contrast at the edges both over land and out into the northern Bay
12 of Bengal. CVIS. Oblique. Hasselblad 110mm. Atlas page 19.
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15 RED AND BLUE

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17 MET 07/17:04 JAVA VOLCANOS. Four of Indonesia's highest volcanic peaks are located at
18 the far eastern end of this long narrow island. As you approach from the northwest,
19 try for both detailed and context views. CVIS. Near Vertical. Oblique. Digital Camera
20 180mm. Atlas page 25.
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