





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

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PHOTO NO. 69-H-1390

*from BK,
Planetary Exploration
by Carl Sagan*

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Mariner 7 - 57

Distance from Mars: 861,850 kilometers (535,650 statute miles).
Time Taken and Recorded: 1911 GMT 8/3/69 (12:11 p.m. PDT 8/3/69).
Time Received on Earth: 9:17 p.m. PDT 8/3/69.
Receiving Station: 210-foot antenna, Goldstone, Calif.
Orientation: Mars North at top when photo tipped 12° clockwise.
Central Meridian: 107.9° East Longitude. (Ephemeris Long. 252.1°).
Terminator: Morning terminator at left limb of planet.

The bright ring at upper right is located in the area known as Elysium, and appears to be a crater at least 200 miles in diameter. The sharply defined dark linear feature nearby (to the right) is the Cerberus canal. The dark area which has recently emerged from the sunrise limb at left is Syrtis Major. The irregular northern border of the south polar cap can be distinguished. It is now spring in the southern hemisphere, and the cap border is slowly shrinking in size, revealing more of the dark Mare Australe region each day. The small bright spot in lower center is a television defect which can be removed in further electronic processing, while the four sharply defined black dots in a rectangular pattern are part of the camera reference system. The television experiment team is headed by Dr. R. B. Leighton of Caltech.

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