

## 4.2.3 RANGER LUNAR CHARTS

Ranger Lunar Charts were produced by ACIC during 1964-1965 using photography acquired on Ranger Missions VII, VIII, IX. Individual charts were produced at scales ranging from 1:400 - 1:1,000,000 on a Mercator projection with the scale at 11°00'45"S. A sheet size of 22" x 29" was used except for Chart RLC-2 which is 29" x 31". Details of large scale sheets are provided in Section 4.3.3.

These products were compiled from photographs recorded from the Ranger Television Camera systems (both narrow and wide angle fields) before impacting the lunar surface. The various publication scales were selected to most completely portray imagery contained in the available photography. Extensive photo rectification was required to size the photographs to the selected scales and control. All of the sheets of this series are based on the ACIC Selenodetic System (1965).

Relief is expressed by shadient portrayal, spot elevations and crater depth values. The relief is produced by a duotone printing using black and green inks. Each sheet contains a black overprint of projection, lunar nomenclature, crater depths and spot elevations. A red overprint is used to show the spacecrafts trajectory trace, each camera track, photo coverage and the outline of the succeeding chart plus the impact point. A black printing, void of overprint information, is also available to give the user an unobstructed view of the lunar surface detail depicted by the shaded relief drawing.

Feature names are taken from the IAU's accepted list. Supplementary features are associated with the named features through the addition of identifying letters.

Chart margin information includes chart location, diagram, and general notes and statements on the control system used, lunar nomenclature, elevation data, and relief portrayal.

RANGER VII LUNAR CHARTS  
1st Edition October 1964

<u>CHART</u>	<u>EXTENT OF COVERAGE PER SHEET</u>
RLC-1 Mare Cognitum Scale 1:1,000,000	10°W to 30°W 0° to 16°S
RLC-2 Guericke Scale 1:500,000	13°W to 16°W 8°S to 16°S

Section 4.2.3

RANGER VIII LUNAR CHARTS  
1st Edition March 1966

<u>CHART</u>	<u>EXTENT OF COVERAGE PER SHEET</u>
RLC-6 Hypatia Scale 1:1,000,000	10°E to 30°E 4°N to 12°S

RANGER IX LUNAR CHARTS  
1st Edition May 1966

<u>CHART</u>	<u>EXTENT OF COVERAGE PER SHEET</u>
RLC-13 Ptolemaeus Scale 1:1,000,000	10°W to 10°E 0° to 16°S