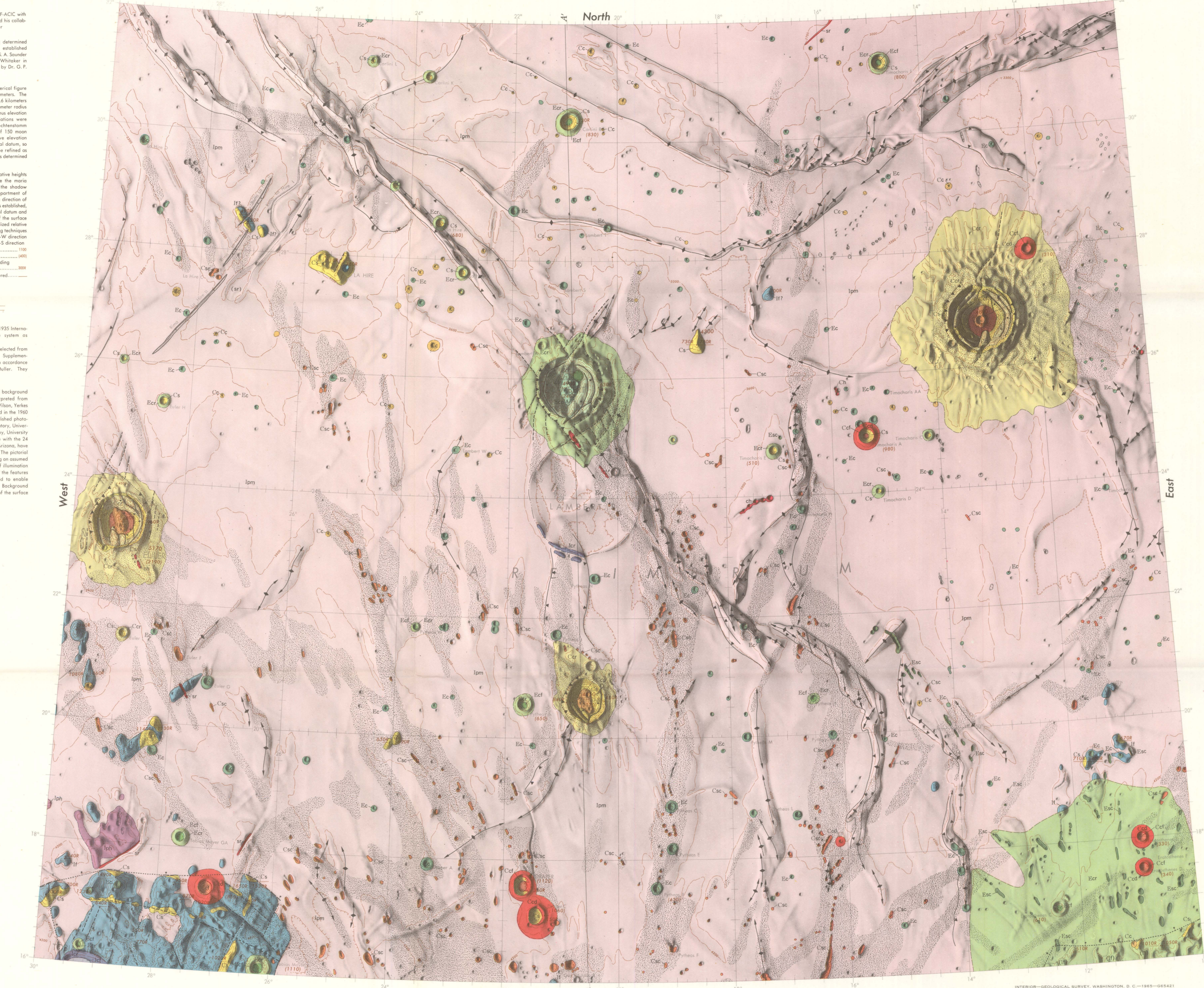
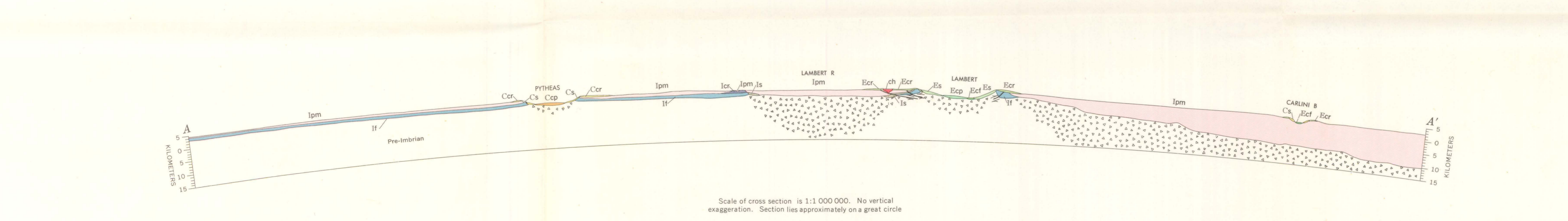


NOTES ON BASE

The lunar base chart was prepared by USAF-AICC with...
The position of features on this chart was determined...
VERTICAL DATUM
Vertical datum is based on an assumed spherical figure...
ELEVATIONS
All elevations are shown in meters. The relative heights...
CONTOURS
All contours are opposite...
NAMES
The feature names were adopted from the 1953 International...
RELIEF PORTRAYAL
The configuration of the relief features and background...
Lunar base chart LAC 40, 1st edition, 1963, by the...
Sources of geologic information: Published and unpublished photographs...
INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C. 20508-0682



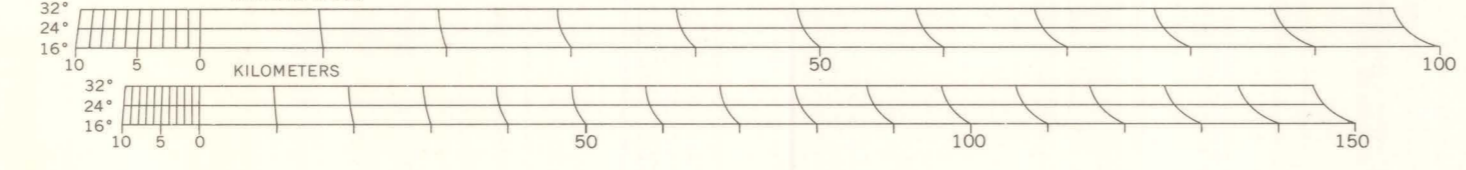
Lunar base chart LAC 40, 1st edition, 1963, by the...
Sources of geologic information: Published and unpublished photographs...
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GEOLOGIC MAP AND SECTION OF THE TIMOCHARIS REGION OF THE MOON

By
M. H. Carr

SCALE 1:1,000,000
LAMBERT CONFORMAL PROJECTION
STANDARD PARALLELS 21° 20' AND 42° 40'

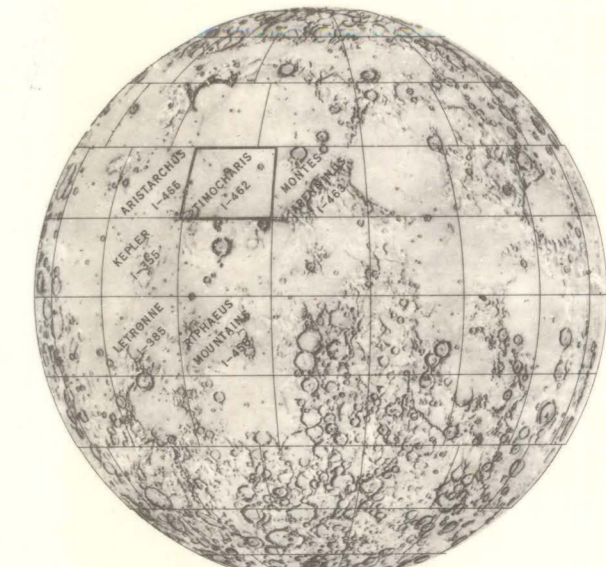


EXPLANATION

PERIOD	EPOCH	EVENTS
Copernican		Formation of ray craters
Eratosthenian		Formation of craters exposed at the surface
Imbrian	Archonictan	Extensive deposition of mare material of the Procellarum Group
	Apenninian	Formation of post-Archonictan craters older than at least the Procellarum Group
Pre-Imbrian time		Events related to the formation of the Maria Imbrium basin. Not yet formally divided.

Cs Slope material Telesopic characteristics: Very high albedo. Occurs on or at the base of steep slopes. Interpretation: Freshly exposed bedrock and freshly generated talus. Formed by sliding and slumping. Process of formation may still be continuing.	Ccr Crater rim material Telesopic characteristics: Moderate to high albedo. Around large craters the unit is hummocky, near the rim crest, grading outward into radial ridges and depressions away from the crater. Around small craters topography appears smooth and the unit is mapped on the base of albedo. Interpretation: Ejecta from impact craters. Purely sorted debris, coarsest debris near rim crest. Around large craters the unit is mapped mainly on the base of topography but a thin layer of debris with no observable topographic expression may extend beyond the area mapped.	Ccf Dark halo crater material Telesopic characteristics: Very low albedo. Smooth topography. Easily distinguishable only when superposed on Copernican ray material. Interpretation: Either dark ejecta from an impact crater or volcanic ejecta.	Ccp Crater floor material Telesopic characteristics: Moderate to high albedo. Underlies areas of smooth topography within large craters. Interpretation: Exposed brecciated bedrock and impact ejecta that has fallen back into the crater. Possibly some slumped wall material.	Ccp Central peak material Telesopic characteristics: High to very high albedo. Forms high ground within large craters. Generally hummocky, cratered topography. In Timocharis the unit consists of a single shallow crater with smooth inner and outer walls. Interpretation: Either brecciated bedrock uplifted during impact or volcanic material formed during impact induced volcanism.	Ccs Satellite crater Telesopic characteristics: Shallow craters with low rims and irregular outlines, commonly elongated radial to primary crater. Many occur in chains or clusters, and merge with one another. Especially common on ray material. Interpretation: Craters formed by ejecta from primary crater.
Cx Crater material, undifferentiated Telesopic characteristics: Generally high albedo but grades into that of surrounding material. Local contrast commonly large, characterized by bright patches and streaks. Ray material is superimposed on parts of all other units except dark halo material. Except for satellite craters, topography is controlled by underlying units. A large number of satellite craters lie in the unit. Interpretation: Probably a thin layer of fragmental rock ejected from both primary and satellite craters.	Ecr Crater rim material Telesopic characteristics: Low albedo. Around large craters the unit is hummocky near the rim crest and grades out into low radial ridges and depressions away from the crater. Around small craters topography appears smooth. Interpretation: Similar to Cc.	Esr Crater rim material Telesopic characteristics: Low albedo. Around large craters the unit is hummocky near the rim crest and grades out into low radial ridges and depressions away from the crater. Around small craters topography appears smooth. Interpretation: Similar to Cc.	Esf Slope material Telesopic characteristics: Low to moderate albedo. Occurs on and at the base of inner walls of craters. Interpretation: Talus material formed by sliding and slumping, now stable.	Ecp Crater floor material Telesopic characteristics: Low albedo. Underlies areas of smooth topography within large craters. Interpretation: Similar to Ccf.	Ecs Central peak material Telesopic characteristics: Moderate albedo. Forms high ground within large craters. Generally hummocky, cratered topography. Interpretation: Similar to Ccp.
Im Mare material Telesopic characteristics: Low albedo. Surface generally smooth and level except for low irregular ridges and scarps. Interpretation: Volcanic materials. Flows, ash beds, or both. Probably fragmental and non-cohesive at the surface.	Icr Crater rim material Telesopic characteristics: Low albedo with moderate local variations. Hummocky topography but more subdued than the topography of Ecr and Ccr. Interpretation: Poorly sorted ejecta from an impact crater, coarsest debris near the rim crest.	Is Slope material Telesopic characteristics: Not exposed but shown on cross section by analogy with Copernican and Eratosthenian craters. Interpretation: Talus material formed by sliding and slumping, now stable.	Icf Crater floor material Telesopic characteristics: Exposed only on the floor of Tobias Mayer where its albedo is marked by ray material. Topography smooth. Interpretation: Similar to Ccf.	Icp Central peak material Telesopic characteristics: Moderate albedo. Forms high ground within large craters. Generally hummocky, cratered topography. Interpretation: Similar to Ccp.	Ics Satellite crater Telesopic characteristics: Shallow craters with low, rounded rims, and irregular outlines that are less distinct than Csc. Commonly elongated radially to primary crater. Many occur in chains or clusters and merge with one another. Interpretation: Craters formed by ejecta from primary crater.
Pr Pre-Mare Formation Telesopic characteristics: Moderate albedo with large local variations. Exposed mainly on topographic highs. Characterized by low subequatorial hummocks 2-3 kilometers across. Topography very rough at a scale of one-half kilometer. Interpretation: Ejecta from the impact that formed the Mare Imbrium Basin. Ejecta probably poorly sorted with no blocks larger than one-half kilometer.	Ch Chain crater material Telesopic characteristics: Aligned craters with low rims, commonly merging with one another. Interpretation: Calderas or scars aligned along a structural lineament.	Ir Irregular depression Unassigned as to age and type.	F Fault Dashed where approximately located. Bar and ball on downthrown side.	CF Concealed fault Bar and ball on downthrown side.	LF Lineament Successes of thrust faults. Successes on upper plate.
SR Sinuous rille material Telesopic characteristics: Shallow sinuous depression. Low albedo. Interpretation: May be (1) Evolutional features excavated by a nude ardente; (2) collapsed lava tube; or (3) graben.	IR Irregular depression Unassigned as to age and type.	MR Mare ridge Showing crest line. Tapered end indicated by arrowhead. Dotted end concealed. May be underlain by anticline. Possibly site of volcanic extrusion.	BR Buried crater Dotted where approximately located. Bar and ball on downthrown side.	BR Brecciated rock	BR Brecciated rock

INDEX MAP OF THE SUBTERRESTRIAL HEMISPHERE OF THE MOON



AREA OF TIMOCHARIS REGION