

NOTES ON BASE
The lunar base chart was prepared by the Aeronautical Chart and Information Center, United States Air Force, with advisory assistance from Dr. Gerard P. Kuiper and W. C. C. Arthur, A. A. Whitehouse.

CONTOUR
Contours are shown as solid lines and dashed lines. Contours are shown as solid lines and dashed lines. Contours are shown as solid lines and dashed lines.

VERTICAL DATUM
Vertical datum is based on an assumed spherical figure of the Moon. The datum is based on an assumed spherical figure of the Moon. The datum is based on an assumed spherical figure of the Moon.

ALL elevations are shown in meters. The relative heights and depths of features are shown in meters. The relative heights and depths of features are shown in meters.

CONTOUR INTERVAL
Approximate contour interval is 100 meters. Contour interval is 100 meters. Contour interval is 100 meters.

NAMES
The features were named from the 1932 lunar atlas of the United States Geological Survey. The features were named from the 1932 lunar atlas of the United States Geological Survey.

RELIEF PORTALS
The relief portals are shown as solid lines and dashed lines. The relief portals are shown as solid lines and dashed lines. The relief portals are shown as solid lines and dashed lines.

ORIENTATION
Orientation is shown as a solid line and dashed line. Orientation is shown as a solid line and dashed line. Orientation is shown as a solid line and dashed line.

SCALE
Scale is 1:1,000,000 at 11°00'45" N. Scale is 1:1,000,000 at 11°00'45" N. Scale is 1:1,000,000 at 11°00'45" N.

SOURCES OF GEOLOGIC INFORMATION
Sources of geologic information are listed in the text. Sources of geologic information are listed in the text. Sources of geologic information are listed in the text.

INDEX MAP OF THE EARTHLY HEMISPHERE OF THE MOON
Index map of the earthly hemisphere of the Moon. Index map of the earthly hemisphere of the Moon. Index map of the earthly hemisphere of the Moon.

UNITS NOT ASSIGNED AGES
Units not assigned ages are listed in the text. Units not assigned ages are listed in the text. Units not assigned ages are listed in the text.

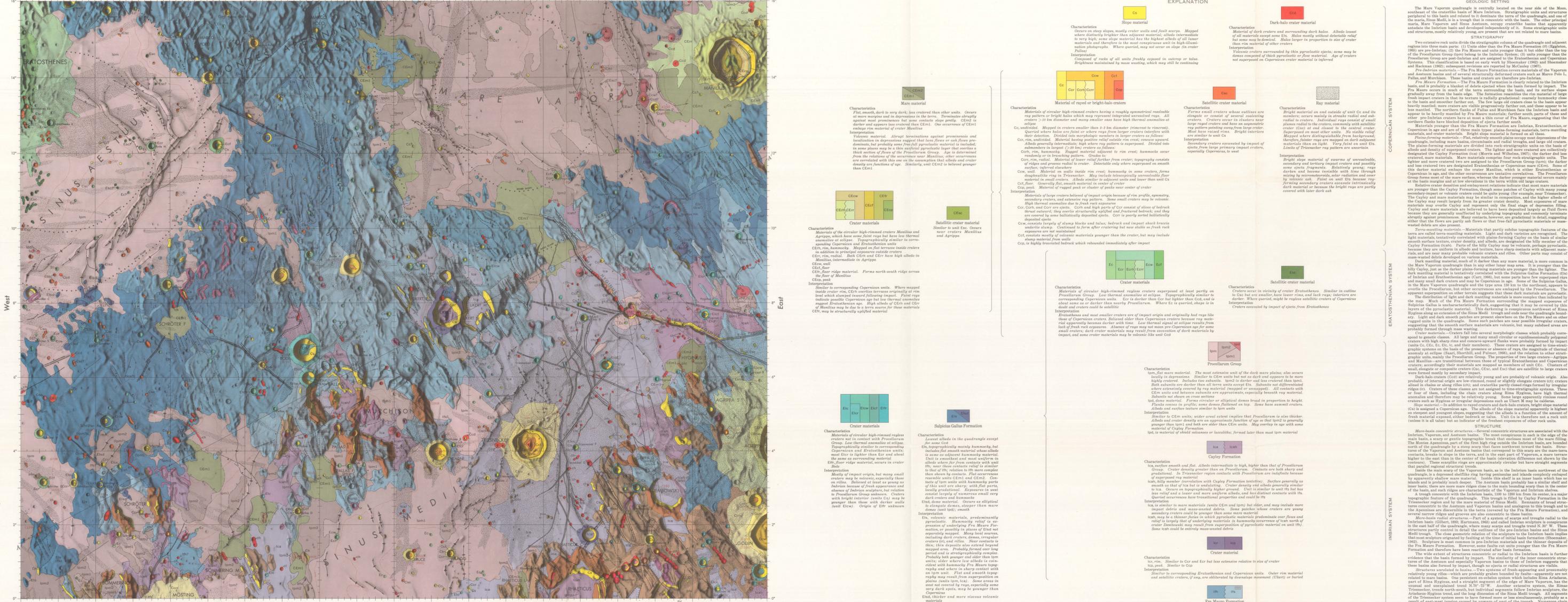
VERTICAL ENLARGEMENT
Vertical enlargement is shown as a solid line and dashed line. Vertical enlargement is shown as a solid line and dashed line. Vertical enlargement is shown as a solid line and dashed line.

CONTACT
Contact is shown as a solid line and dashed line. Contact is shown as a solid line and dashed line. Contact is shown as a solid line and dashed line.

CHAIR-CRATER MATERIAL
Chair-crater material is shown as a solid line and dashed line. Chair-crater material is shown as a solid line and dashed line. Chair-crater material is shown as a solid line and dashed line.

MATERIAL OF LOW-IMPACT CRATERS
Material of low-impact craters is shown as a solid line and dashed line. Material of low-impact craters is shown as a solid line and dashed line. Material of low-impact craters is shown as a solid line and dashed line.

IRREGULAR RING MATERIAL
Irregular ring material is shown as a solid line and dashed line. Irregular ring material is shown as a solid line and dashed line. Irregular ring material is shown as a solid line and dashed line.



EXPLANATION
Detailed legend for the geologic map, including symbols for craters, ridges, faults, and other geological features. Includes descriptions for units like Procellarum Group, Sulpicius Gallus Formation, and Cayley Formation.

REFERENCES CITED
List of references cited in the map, including works by Kuiper, Shoemaker, and other lunar geologists.

INDEX MAP OF THE EARTHLY HEMISPHERE OF THE MOON
Index map of the earthly hemisphere of the Moon, showing the location of the Mare Vaporum quadrangle.

UNITS NOT ASSIGNED AGES
List of geological units that have not been assigned specific ages.

VERTICAL ENLARGEMENT
Diagram showing vertical enlargement of features, with a scale of 10x.

CONTACT
Diagram showing different types of geological contacts, such as concordance and unconformity.

CHAIR-CRATER MATERIAL
Diagram showing chair-crater material and its relationship to other geological units.

MATERIAL OF LOW-IMPACT CRATERS
Diagram showing material from low-impact craters and its characteristics.

IRREGULAR RING MATERIAL
Diagram showing irregular ring material and its formation.

BY
Don E. Wilhelm
1968

GEOLOGIC MAP OF THE MARE VAPORUM QUADRANGLE OF THE MOON

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GEOLOGIC SETTING

The Mare Vaporum quadrangle is located in the near side of the Moon, southeast of the cratered basin of Mare Imbrium. Stratigraphic units and structure patterns in the quadrangle are related to the geologic setting of the entire Moon.

STRATIGRAPHY
The stratigraphic relations of the quadrangle and adjacent regions into three main parts: (1) Units older than the Fra Mauro Formation (E), (2) Units younger than the Fra Mauro Formation (F), and (3) Units younger than the Fra Mauro Formation (G).

PRE-IMBRIAN SYSTEM
Units older than the Fra Mauro Formation, including the Imbrium basin and surrounding highlands. These units are characterized by a high density of impact craters.

IMBRIAN SYSTEM
Units younger than the Imbrium basin but older than the Fra Mauro Formation. These units include the Imbrium basin and the surrounding highlands.

COOPERNICAN SYSTEM
Units younger than the Imbrian system but older than the Fra Mauro Formation. These units include the Imbrium basin and the surrounding highlands.

ERATOSTHENIAN SYSTEM
Units younger than the Copernican system but older than the Fra Mauro Formation. These units include the Imbrium basin and the surrounding highlands.

FRAMAURIAN SYSTEM
Units younger than the Eratosthenian system but older than the Fra Mauro Formation. These units include the Imbrium basin and the surrounding highlands.

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