4.2.2 APOLLO INTERMEDIATE CHART (AIC) SERIES
(Published by ACIC)

Apollo Intermediate Charts
Scale: 1:500,000
Projection: Mercator
Sheet Size: 22" x 29"

The Apollo Intermediate Chart Series (AIC) was produced to support early planning in the primary portion of the Apollo Zone of interest.

This series was constructed on a Mercator project with true scale at 11.0125° North and South latitude. Its area of coverage is from 0° to 8° north and south latitude and 50° east to 50° west longitude. The twenty charts, which comprise the AIC series, were published between August 1965 and January 1967.

Feature positions and elevation show on these charts are based on the ACIC Selenodetic System (1965). To support chart compilation at this scale, supplementary positional data was developed in each chart area.

The charts were developed from earth-based telescopic photograph, which were rectified and mosaicked to fit the horizontal control network. Photographic details were supplemented by visual telescopic observations accomplished at Lowell Observatory in Flagstaff, Arizona.

The shaded relief drawing contained was developed using an assumed light source from the west to portray relief features as they would appear when the angle of illumination is equal to the angle of slope. This resulted in a drawing which simulates the lighting conditions on the lunar landscape under the evening terminator, but without shadows. Also, a background coloration drawing was prepared to supplement the schedule relief portrayal. This drawing depicts the varieties in reflectance of the lunar surface under full moon illumination. The two drawings were lithographed with the relief in green and the background coloration in light blue.

Definition of relief includes lunar radius vectors of selected features and their estimated reliability. Relative heights and crater depths determined by shadow measuring techniques are also shown.

Feature names were taken from the International Astronomic Union nomenclature system. As necessary, a dotted or dashed limit line was used to positively identify the exact feature.

The shaded relief is also printed on the reverse side of these charts. All overprinting information was omitted to provide the user an unobstructed view of the interpreted lunar surface detail. Selected areas of interest on the reverse side printing are outlined and described in the margin with respect to the observed appearance without an intended inference as to the origin and development of the lunar surface.

DMAAC – February 1973 Apollo Intermediate Chart (AIC) Series

Chart margin information includes chart title, general notes, bar scale reliability diagrams and a sheet index reference to the LAC series. Within the border notes are statements on the control, datum, nomenclature, relief portrayal and elevation data. Extent of coverage of individual AIC charts is show in Map Index I (5).

CHART NO.	NAME	EDITION AND DATE
AIC 57C	Encke	1st Ed Aug 1966
AIC 57D	Maestlin	1st Ed Aug 1966
AIC 58C	Gambart	1st Ed May 1965 2nd Ed Aug 1966
AIC 58D	Reinhold	1st Ed Mar 1965 2nd Ed Aug 1966
AIC 59C	Triesnecker	1st Ed Jan 1966
AIC 59D	Pallas	1st Ed Jan 1966
AIC 60C	Arago	1st Ed Mar 1966
AIC 60D	Agrippa	1st Ed May 1965 2nd Ed Aug 1966
AIC 61C	Secchi	1st Ed Jan 1967
AIC 61D	Maskelyne D	1st Ed May 1966
AIC 75A	Flamsteed	1st Ed Aug 1966
AIC 75B	Wichmann	1st Ed Aug 1966
AIC 76A	Euclides P	1st Ed Jun 1966
AIC 76B	Fra Mauro	1st Ed Jun 1966
AIC 77A	Flammarion	1st Ed May 1965 2nd Ed Sep 1966
AIC 77B	Hipparchus	1st Ed Mar 1966

CHART NO.	NAME	EDITION AND DATE
AIC 78A	Delambre	1st Ed Mar 1966
AIC 78B	Torricelli	1ST Ed Apr 1966
AIC 79A	Capella	1st Ed Jun 1966
AIC 79B	Messier	1st Ed Dec 1966