

A.L.P.O. Monograph Number 11

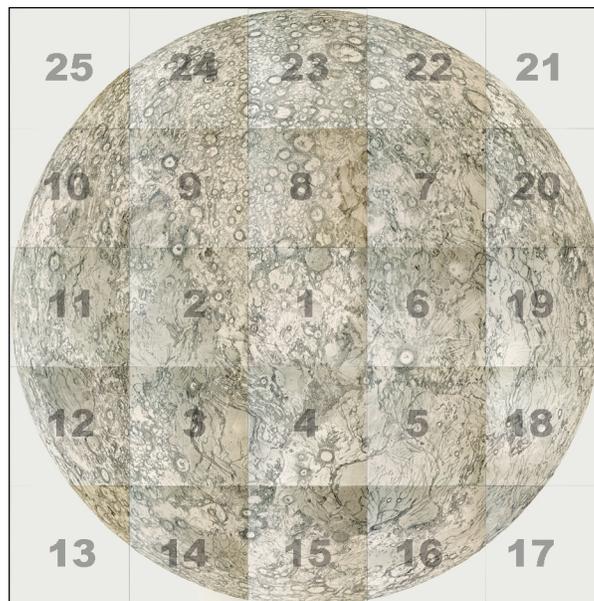
## The Julius Schmidt Moon Map

Edited by John Westfall, May, 2008

The *Charte des Gebirge des Mondes* (Chart of the Mountains of the Moon) by J. F. Julius Schmidt, published in 1878, was the most detailed lunar map of its time. It represents a continuation of the German school of lunar mapping, following the charts of Lohrmann (1824, 1878) and of Beer and Mädler (1834-36).

At first glance, Schmidt's map appears to show relief as did its predecessors; with *hachures*, or short pen strokes in the direction of slope. A closer look, though, shows that Schmidt used the *vertical relief shading* method, where steep slopes are dark and gentle slopes lighter, with no attempt to show the direction of slope.

Like its predecessors (and its successors until the Apollo era), the Schmidt map is on the Orthographic Projection, shown at mean libration, with lunar south at the top. Directions are given in the classical manner, where Grimaldi is near the east (*Ost*) limb and Mare Crisium near the west. Lunar latitudes and longitudes are given on the margins of each sheet. The original scale was 194.9 cm to the lunar diameter. If this reproduction is printed out at 100 percent scale, it will be considerably reduced; to about 61.25 cm/lunar diameter (thus about 1:5,675,000 or 31.4 percent original size). However, the map sheets have been photographed at high resolution (approximately 9340 pixels to the lunar diameter or 372 meters per pixel), so they can be viewed at 200 percent or even 400 percent scale. An index to the 25 map sheets is shown below.



The reproductions here are in RGB color and high resolution, and thus have large file sizes (roughly 10 megabytes per map sheet). For this reason, the 25 sheets have been

grouped into nine PDF files for easier downloading, the names of each file ending in four digits (e.g., Schmidt2022), where the first two digits are the number of the first sheet, and the last two digits the number of the last sheet, included. The top of each page shows the sheet number and a descriptive title assigned by the editor.

The reproductions here have had their contrast increased to better show detail and also to show the Arabic numbers that designate the names of craters, the Roman numerals used for maria, and the Roman or Greek letters that stand for the names of mountain ranges. There are no names actually printed on the map sheets; to find these you need to refer to a tenth PDF file, *SchmidtGuide.pdf*, which reproduces the booklet that accompanied the map (*Kurze Erläuterung zu J. Schmidt's Mondcharte*). The booklet is written in German and describes the map in general as well as the features shown on each of the map sections. Even if you do not read German, you can use the booklet to find the feature names designated by letters or numbers on the map.

The editor must thank Robert A. Garfinkle, F.R.A.S., who kindly allowed him to photograph his personal copy of the Schmidt lunar map.

CHARTE  
DER  
GEBIRGE DES MONDES

NACH EIGENEN BEOBACHTUNGEN IN DEN JAHREN 1840-1874

ENTWORFEN VON

**DR. J. F. JULIUS SCHMIDT,**

DIRECTOR DER STERNWARTE ZU ATHEN.

HERAUSGEGEBEN AUF VERANLASSUNG UND KOSTEN DES

KÖNIGLICH PREUSSISCHEN MINISTERIUMS DER GEISTLICHEN, UNTERRICHTS- UND  
MEDICINAL-ANGELEGENHEITEN.

25 BLÄTTER.

**BERLIN.**

IN COMMISSION BEI DIETRICH REIMER.

1878.

Schmidt *Charte der Gebirge des Mondes*, Sheet 1: Sinus Medii

