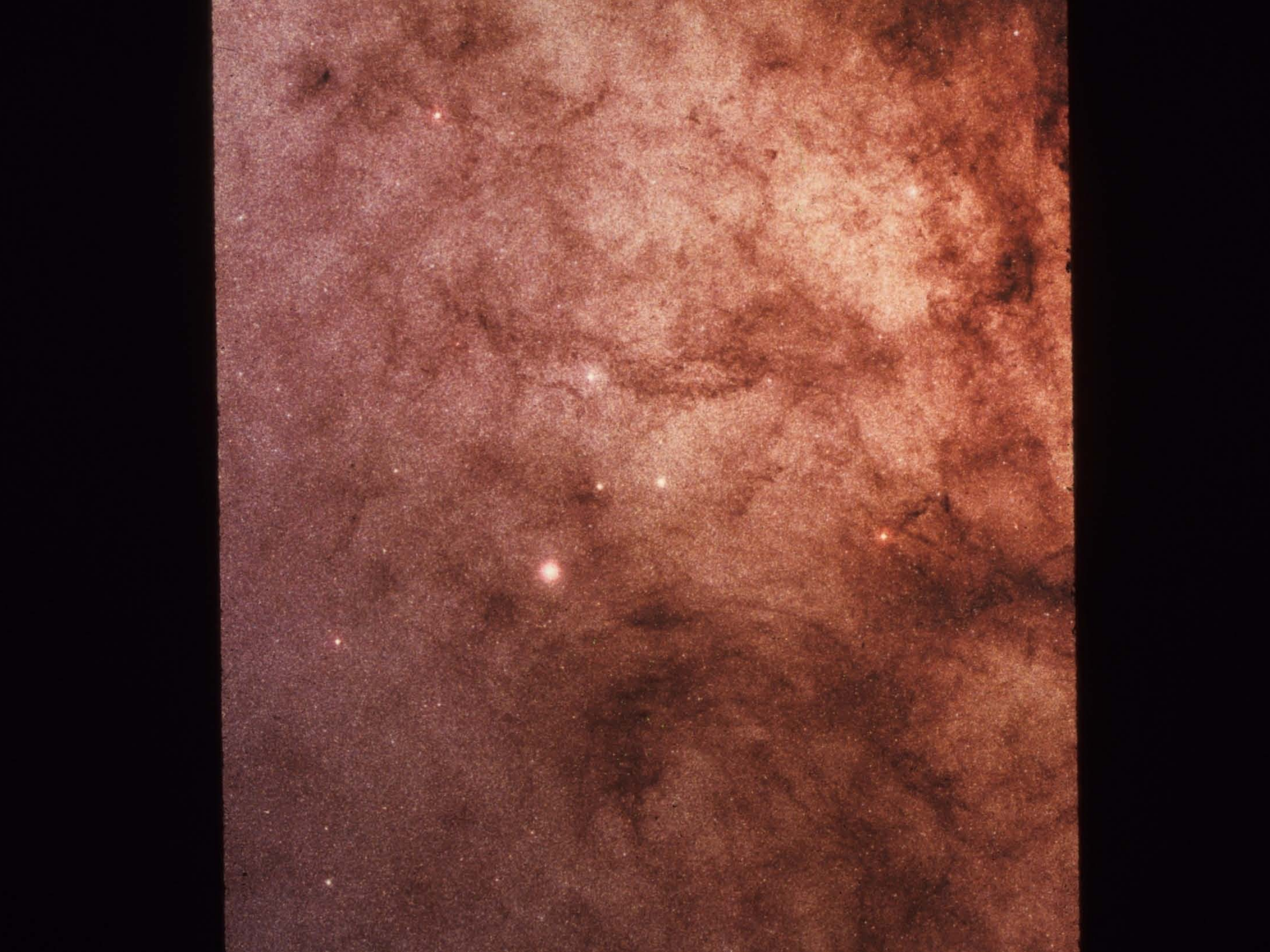
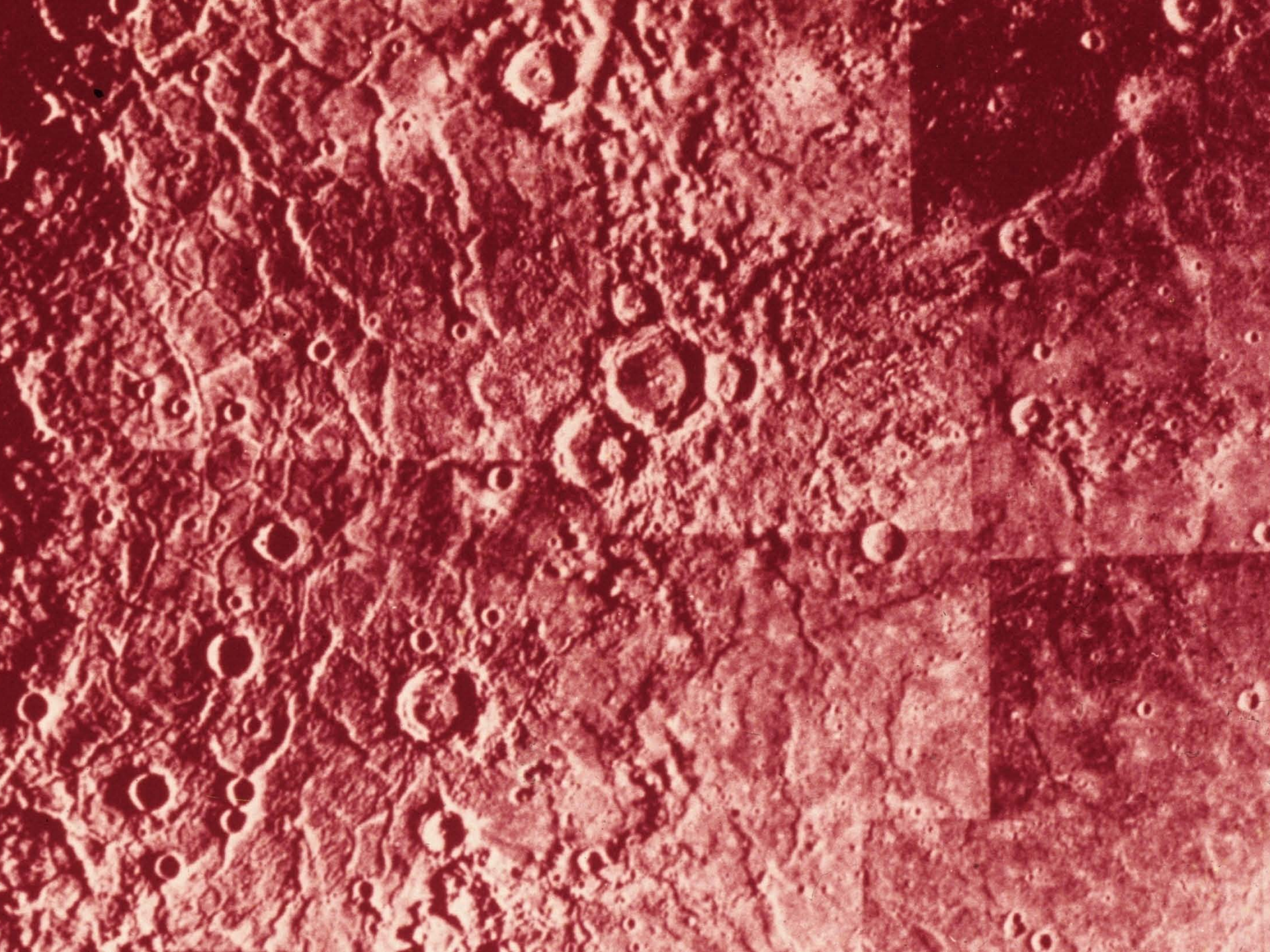
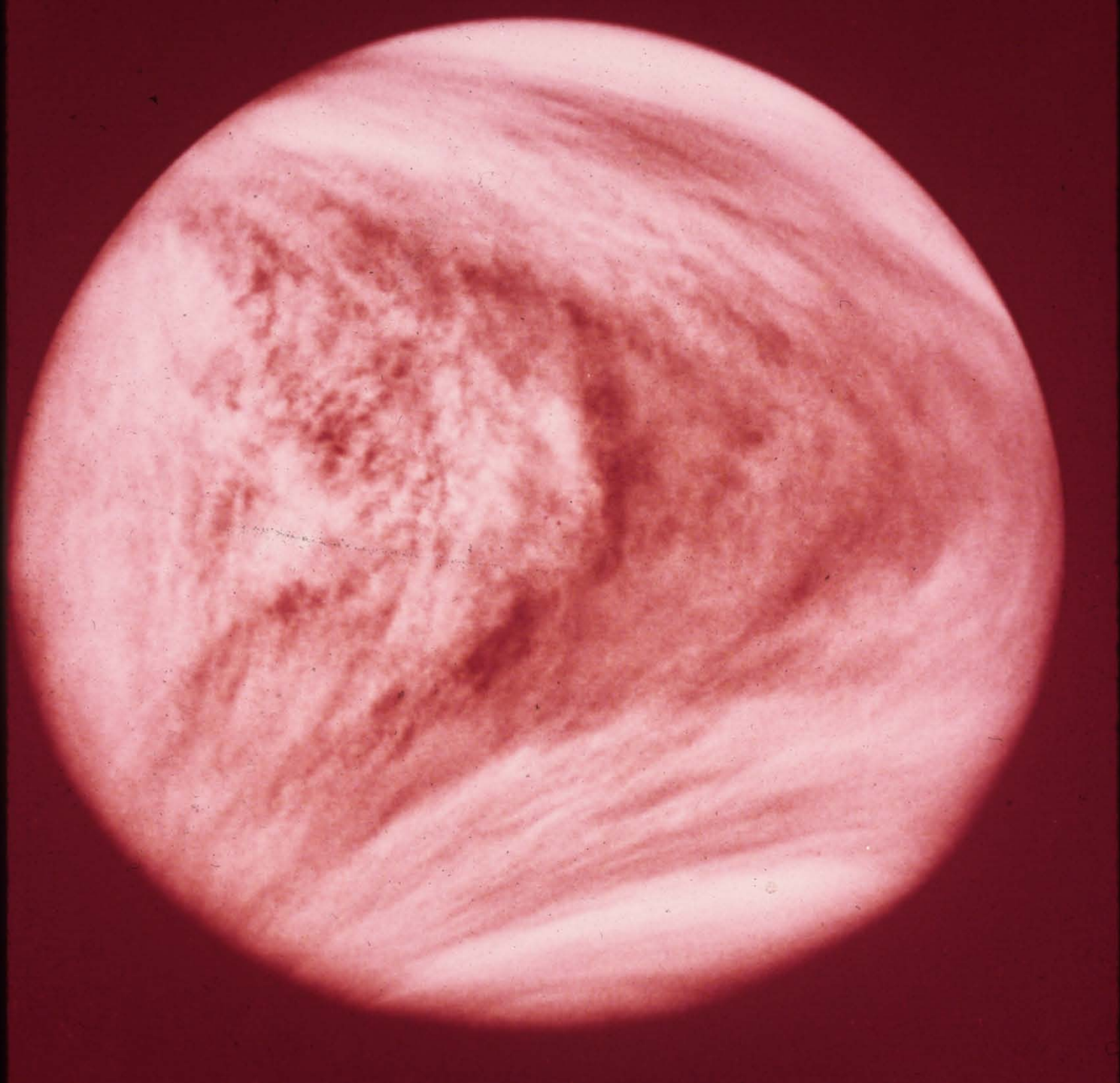
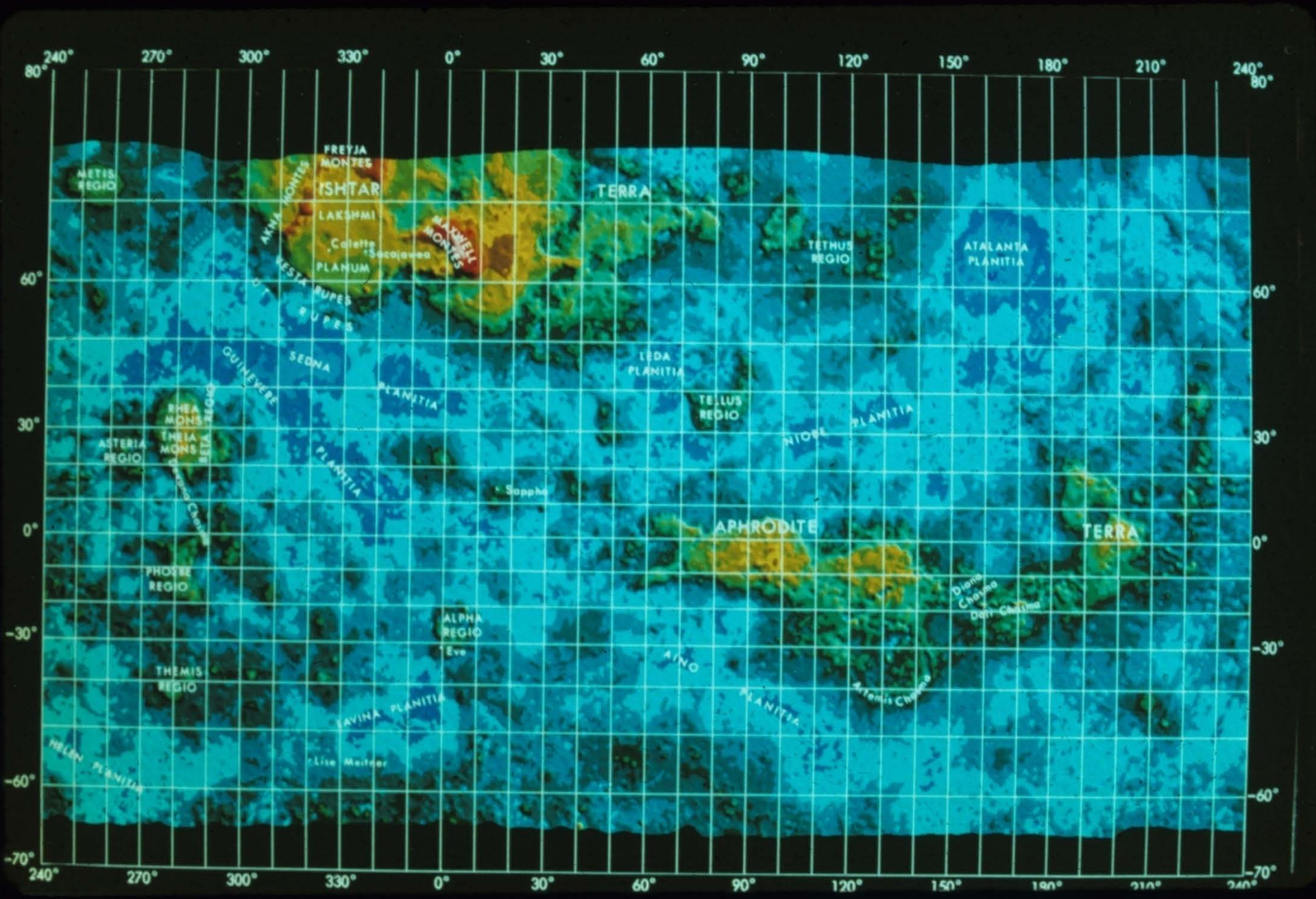
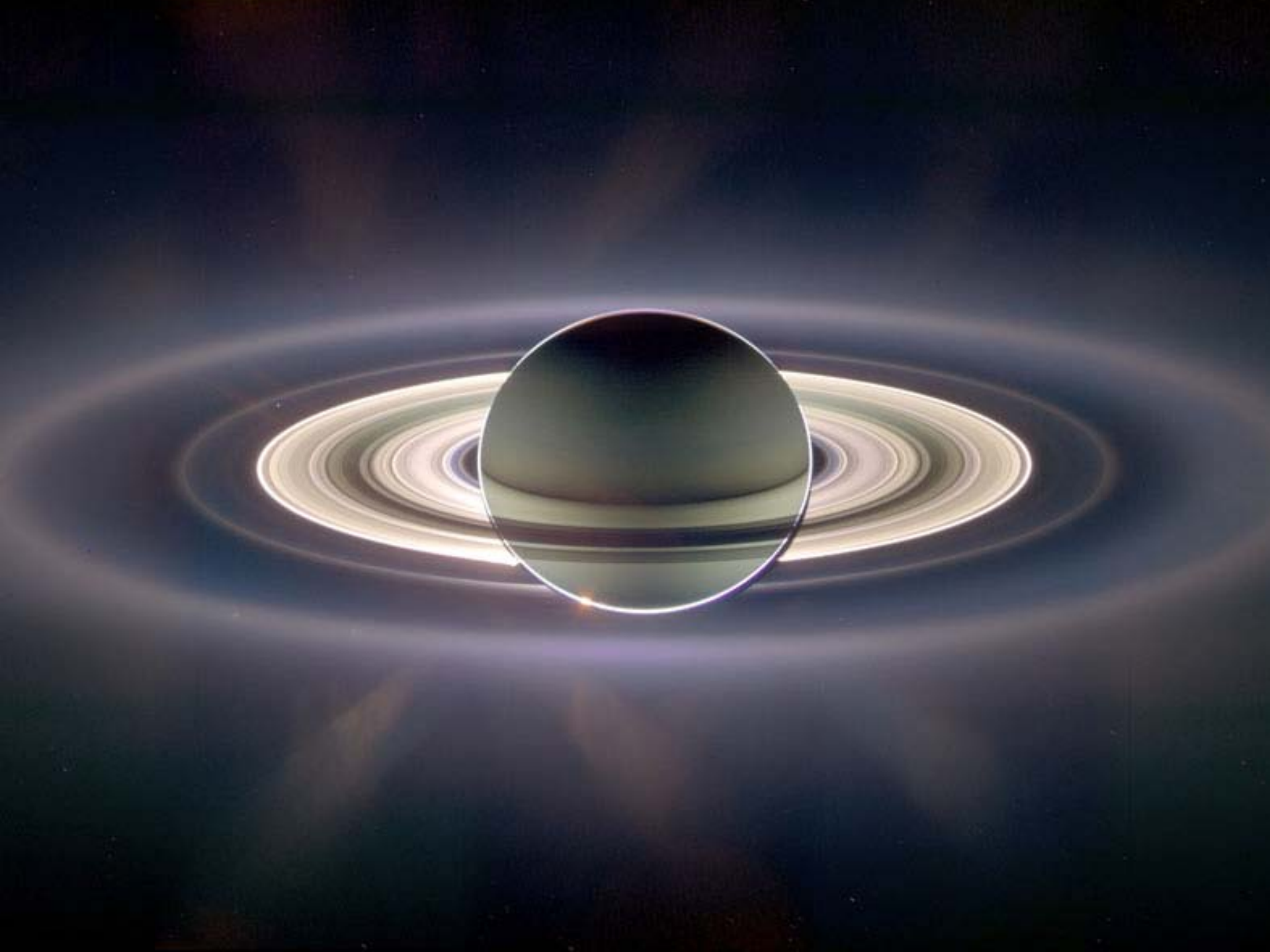
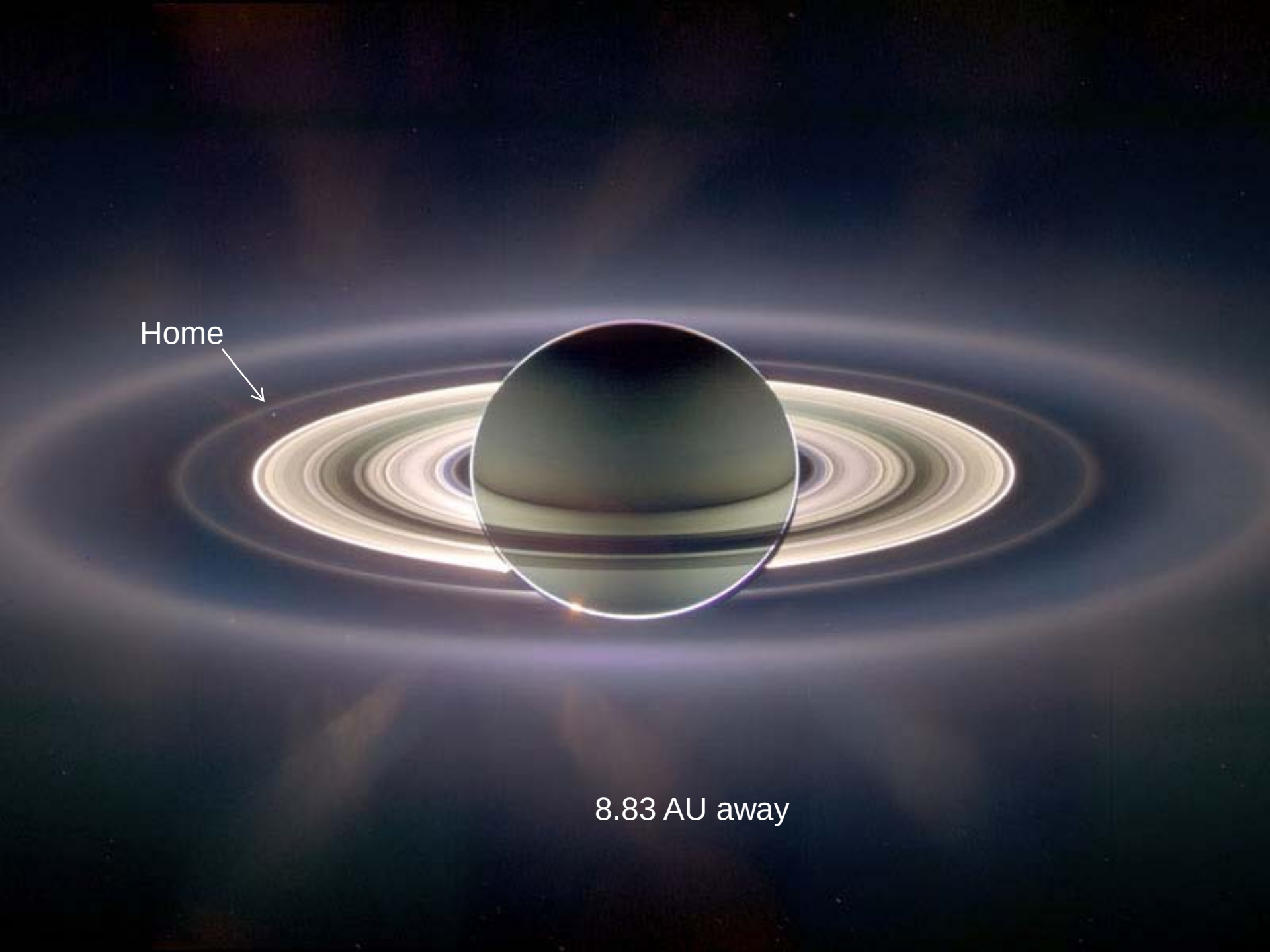


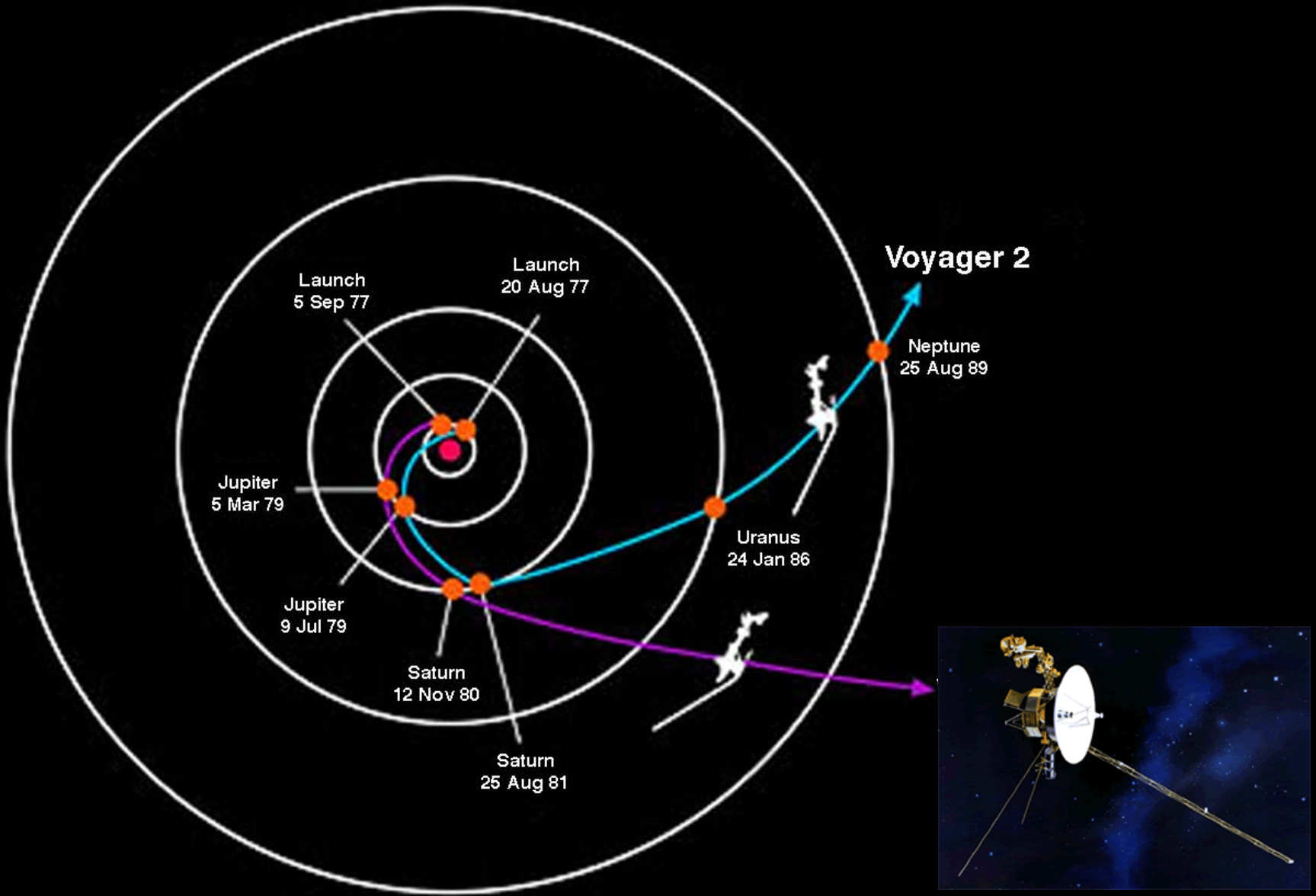





240°
270°
300°
330°
0°
30°
60°
90°
120°
150°
180°
210°
240°
80°
60°
30°
0°
-30°
-60°
-70°
METIS REGIO
FREYJA MONTES
ISHTAR
LAKSHMI PLANUM
Colette
Sacajawea
MAXWELL MONTES
AKNA MONTES
TERRA
TETHUS REGIO
ATALANTA PLANITIA
GUINEVERE
SEGNA
LEDA PLANITIA
TELLUS REGIO
RHEA MONS
THEIA MONS
ASTERIA REGIO
Sappho
APHRODITE
TERRA
PHOEBE REGIO
Diana Chasma
Dali Chasma
ALPHA REGIO
Eve
THEMIS REGIO
Artemis Chasma
LAVINIA PLANITIA
Lise Meitner
HELEN PLANITIA

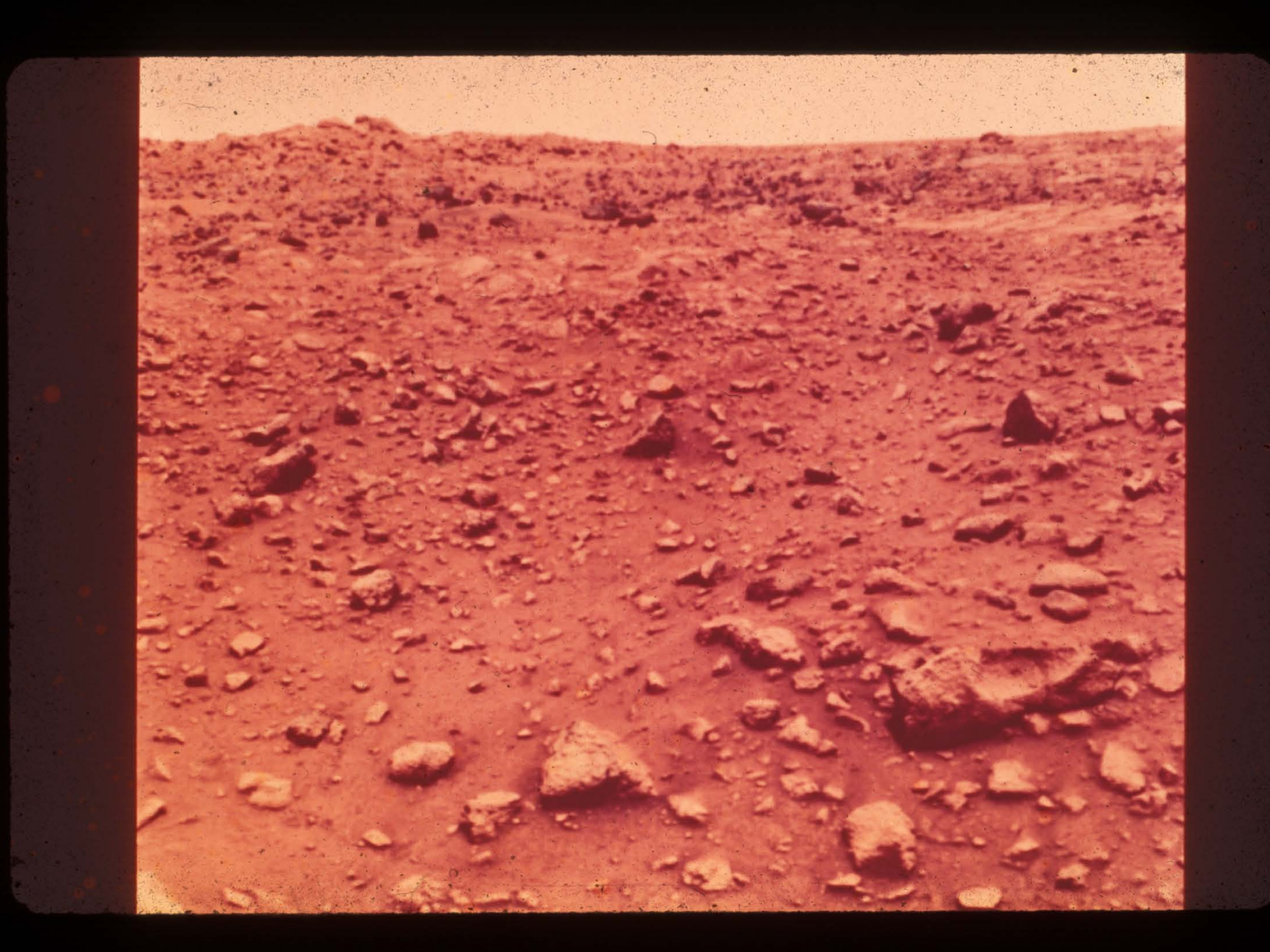


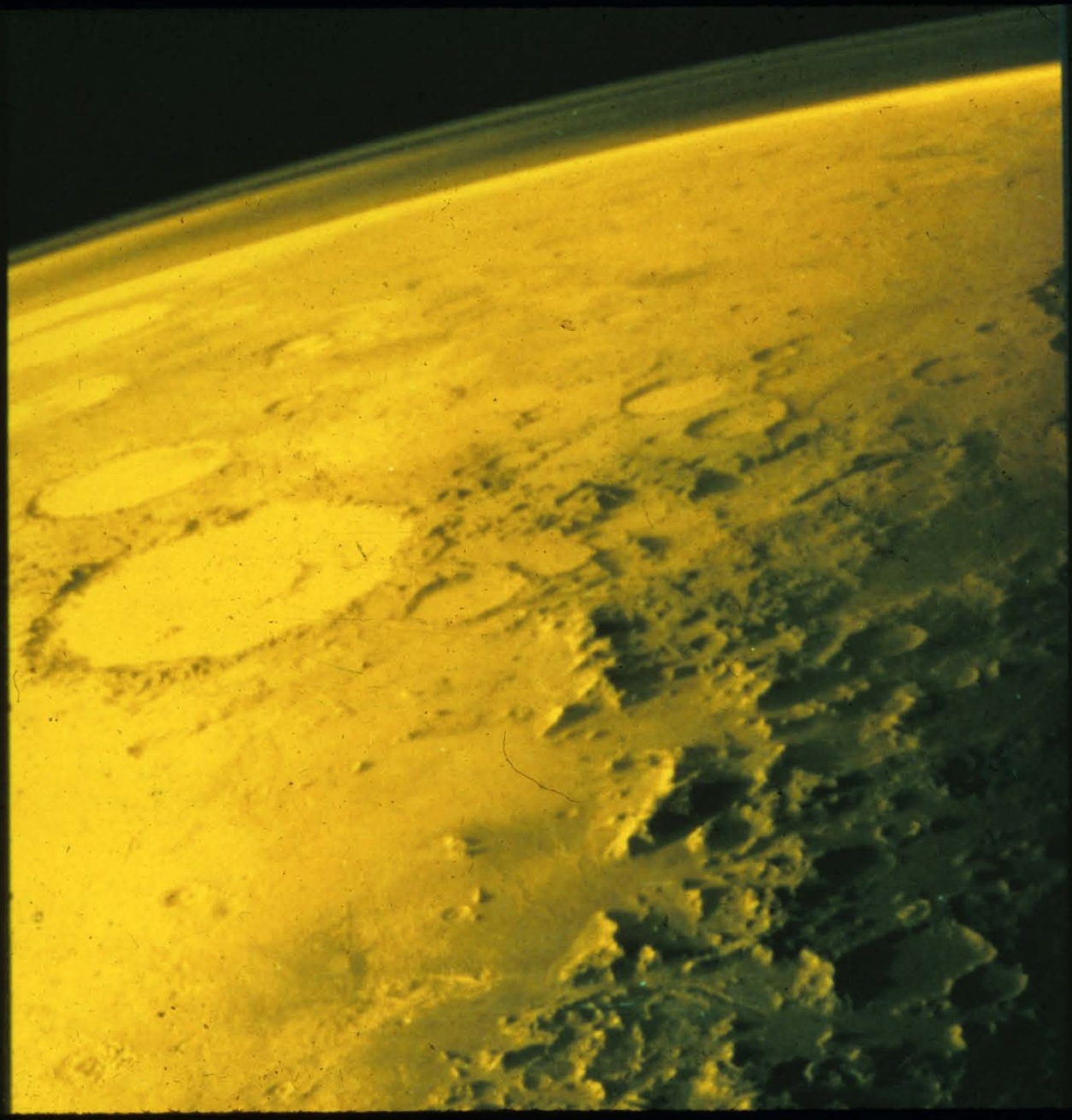

Home
8.83 AU away

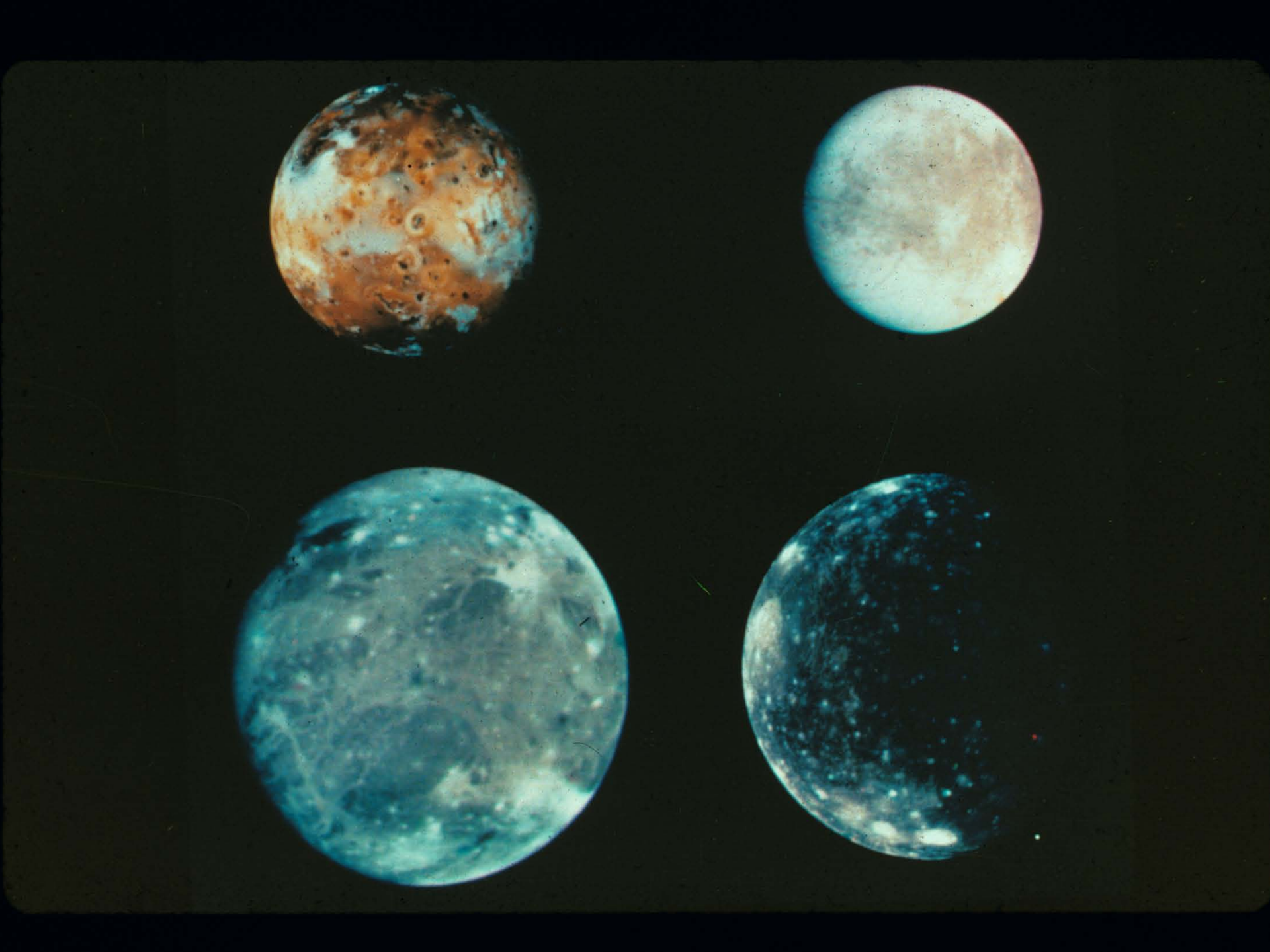

Voyager 2
Launch
5 Sep 77
Launch
20 Aug 77
Neptune
25 Aug 89
Jupiter
5 Mar 79
Uranus
24 Jan 86
Jupiter
9 Jul 79
Saturn
12 Nov 80
Saturn
25 Aug 81


Home
40 AU away
(3.7 Billion miles)

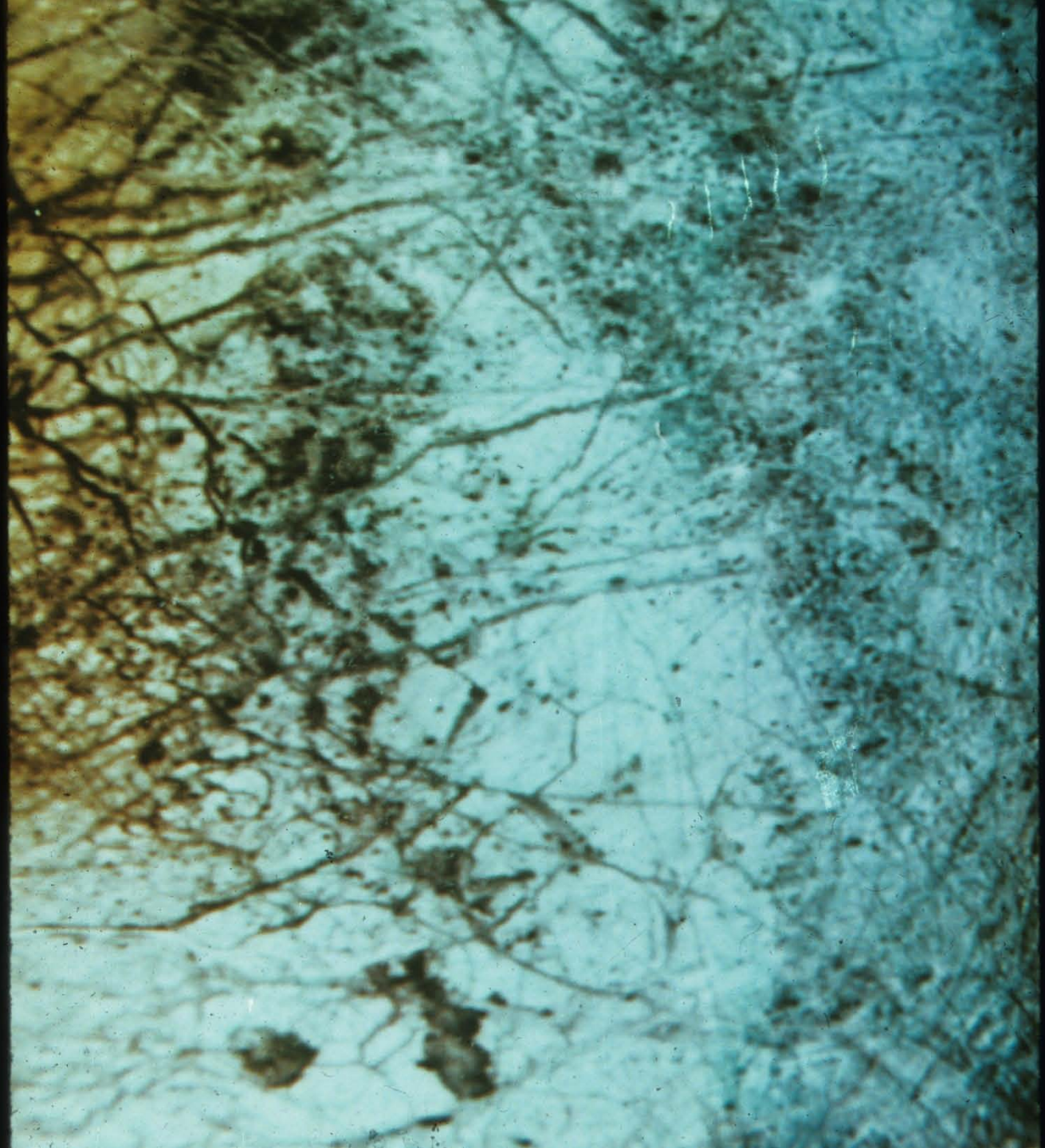
Mars at Opposition February 1995 • PRC95-17 • ST ScI OPO • March 21, 1995 • P. James (U.Toledo), NASA

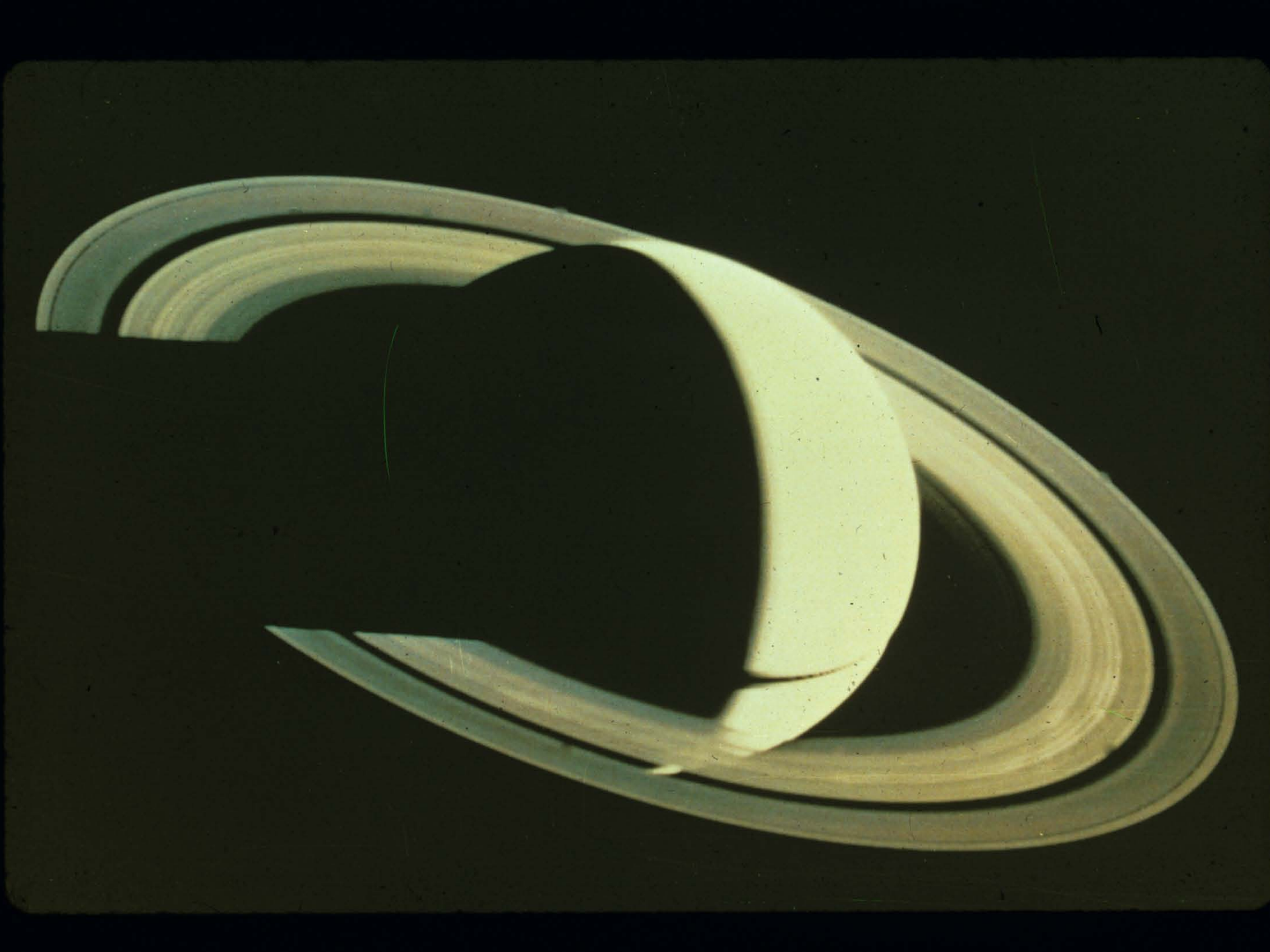


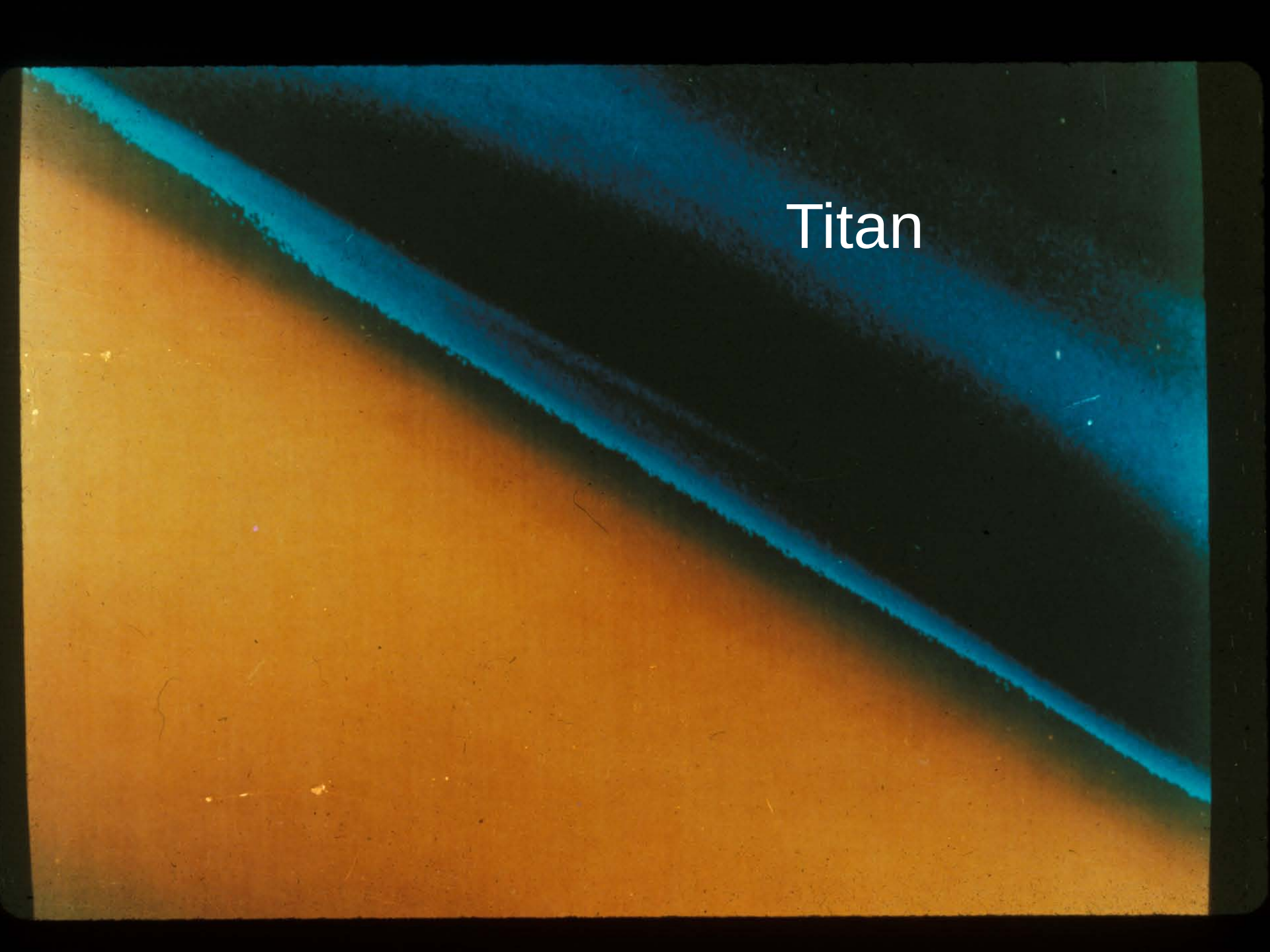




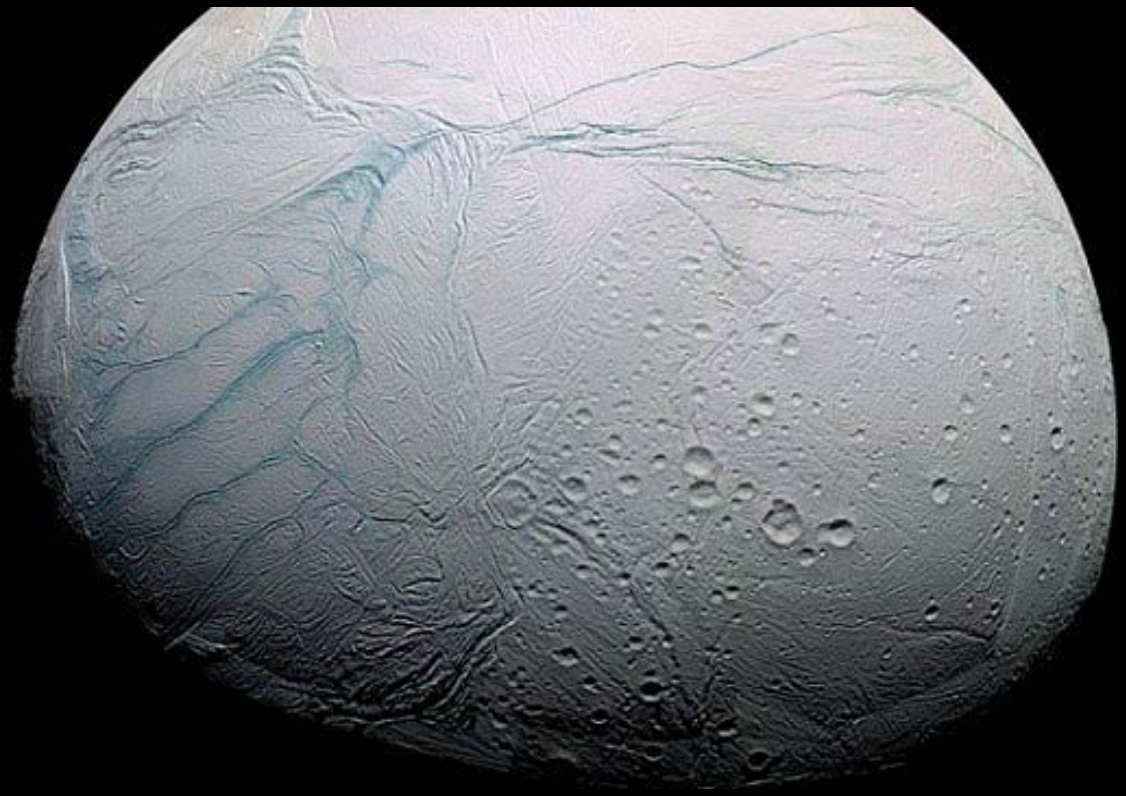
Europa






Titan

Enceladus



The Drake Equation

$$N = R\, f_s\, f_p\, n_e\, f_l\, f_i\, f_c\, L$$

R = Average rate of star formation (stars/year)

f_s = Fraction of stars that are "good" suns

f_p = Fraction of good stars with planetary systems

n_e = Number of planets per star within ecoshell

f_l = Fraction of n_e on which life develops

f_i = Fraction of living species that develop intelligence

f_c = Fraction of intelligent species reaching an electromagnetic communicative phase

L = Lifetime in communicative phase (years)

$$N \approx L$$