

PIONEER IMAGES OF JUPITER

J. W. Fountain and T. Gehrels
The University of Arizona, Tucson, Arizona

Pioneer 10 flew by Jupiter in December 1973 and Pioneer 11, in a more polar trajectory, one year later. We present some of the pictures of Jupiter made with the spin-scan technique by the imaging photopolarimeter. The pictures are presented here without comment as a detailed description of Jupiter together with references concerning the instrument and its results, and were published in the book, *Jupiter*, edited by T. Gehrels (University of Arizona Press, 1976).

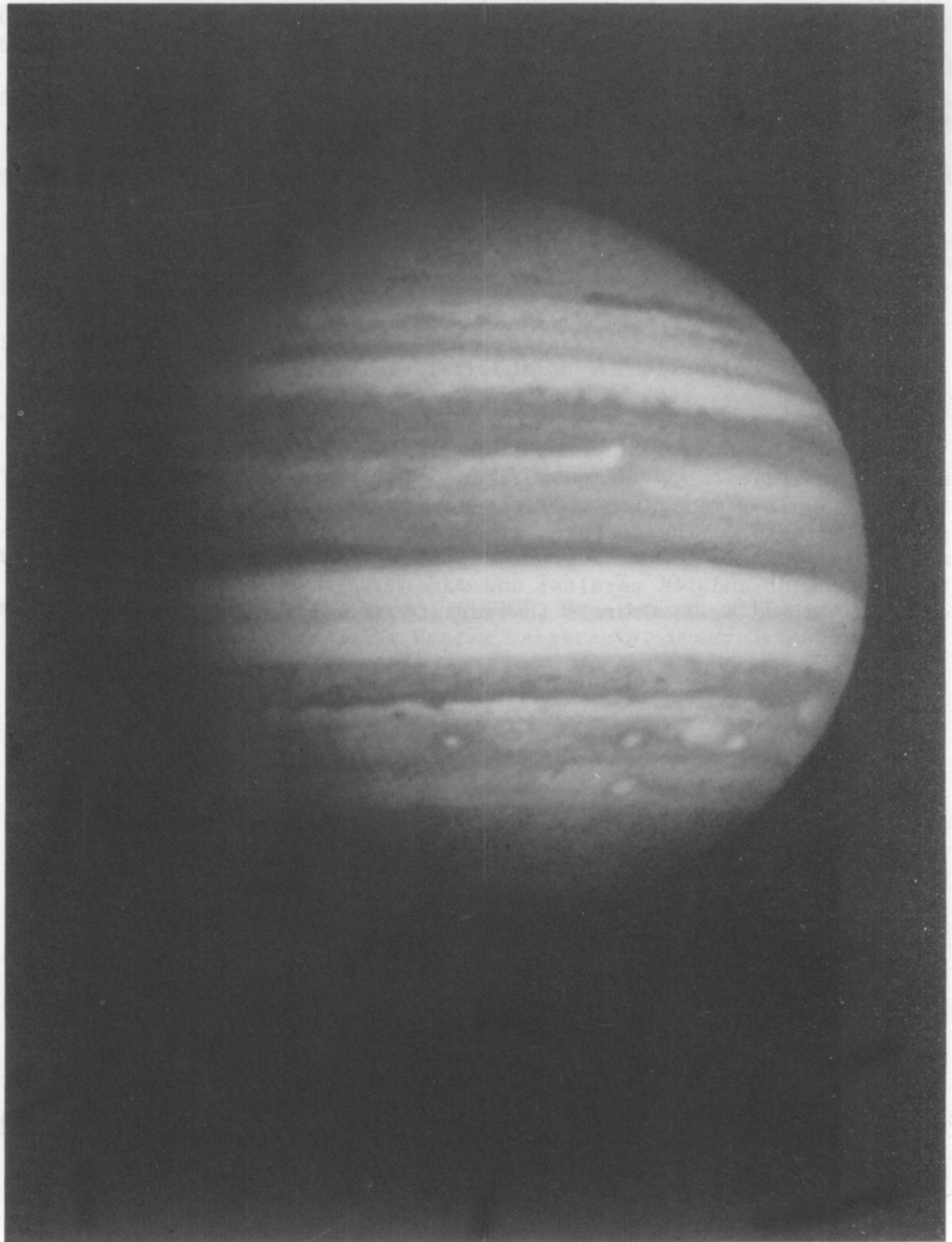


Figure 1. Pioneer 10 image A28 blue light. Mid-time of receipt of data 1973 December 2 22:31 UT. Range 1.84×10^6 km from center of Jupiter. Phase angle 23° , longitude of central meridian in System II (LCM2) 166° .

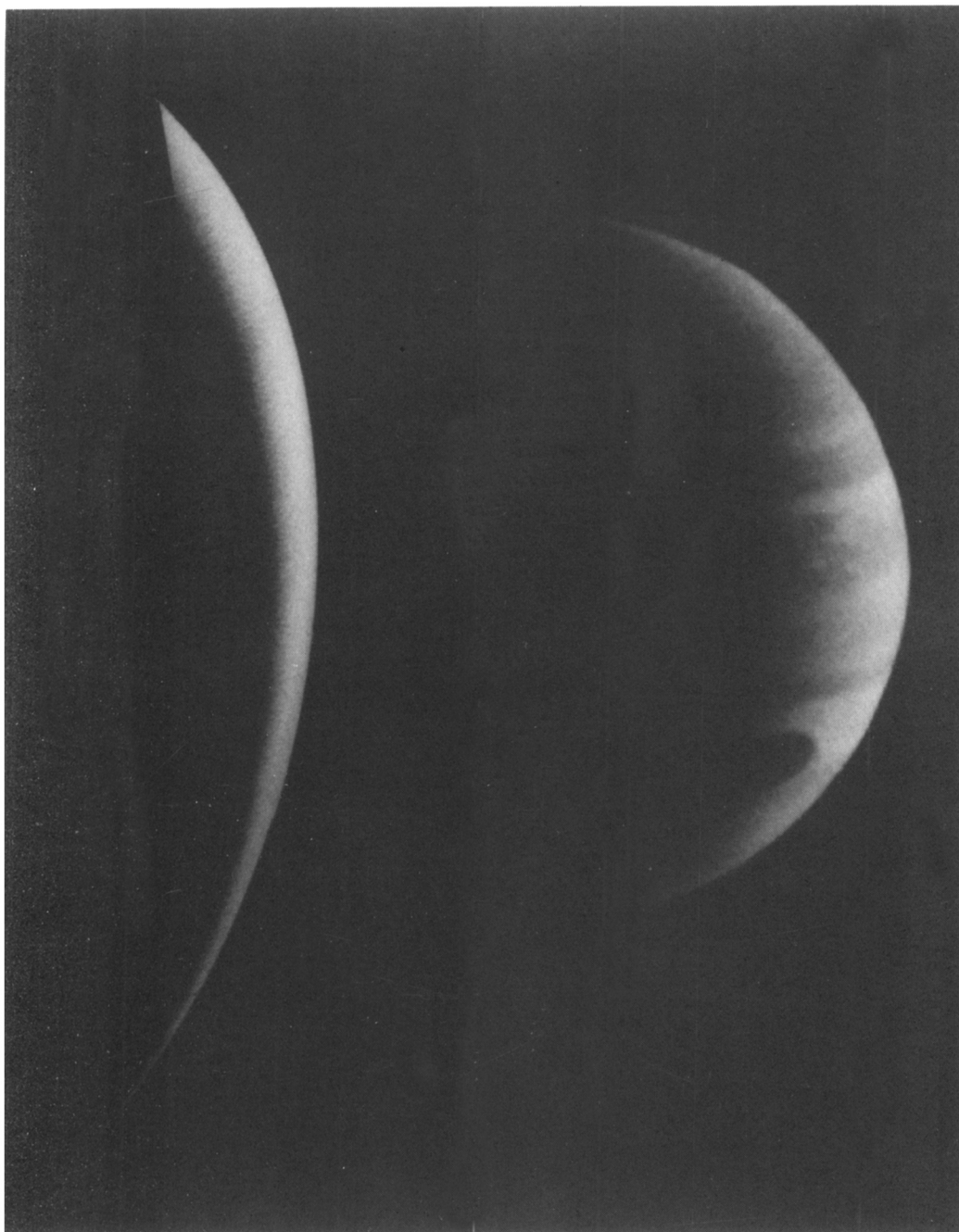


Figure 2 (left). Pioneer 10 B1 blue. 1973 December 4 8:38 UT. Range 0.504×10^6 km, phase angle 147° , LCM2 91° . Note the near absence of belts.

Figure 3(right). Pioneer 10 B16 blue. 1973 December 5 4:31 UT. Range 1.66×10^6 km, phase angle 114° , LCM2 57° .



Figure 4. Pioneer 11 C4 blue. 1974 December 2 22:58 UT. Range 0.657×10^6 km, phase angle 66° , LCM2 321° .



Figure 5. Pioneer 11 C4 red. Same data as Figure 4. Inset indicates coverage of planet.

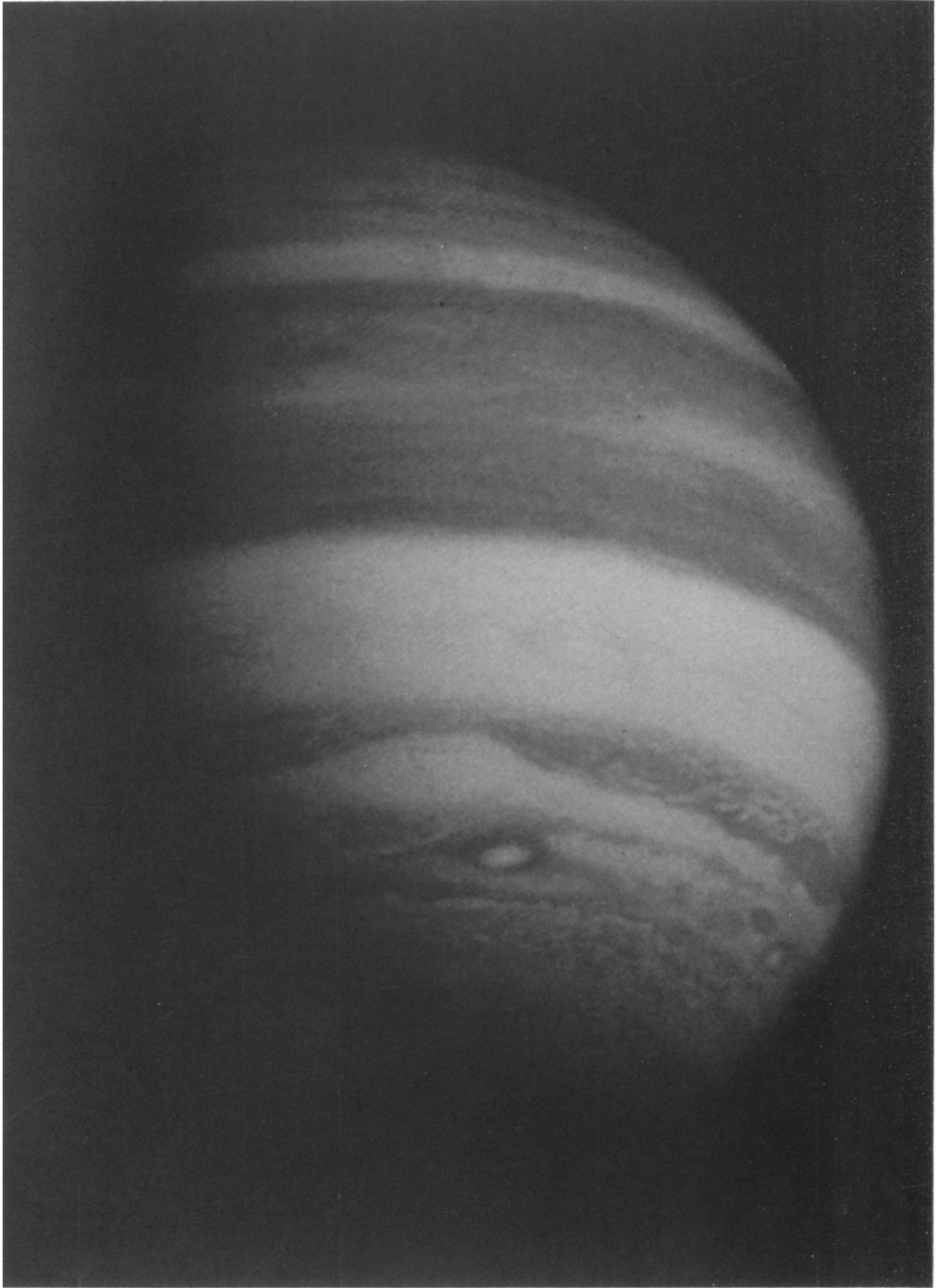


Figure 6. Pioneer 11 C5 blue. 1974 December 2 21:26 UT. Range 0.765×10^6 km, phase angle 63° , LCM2 263° .



Figure 7. Pioneer 11 D4 blue. 1974 December 3 12:27 UT. Range 0.610×10^6 km, phase angle 52° , LCM2 3° . Inset indicates coverage on planet. Compare with Figure 4.

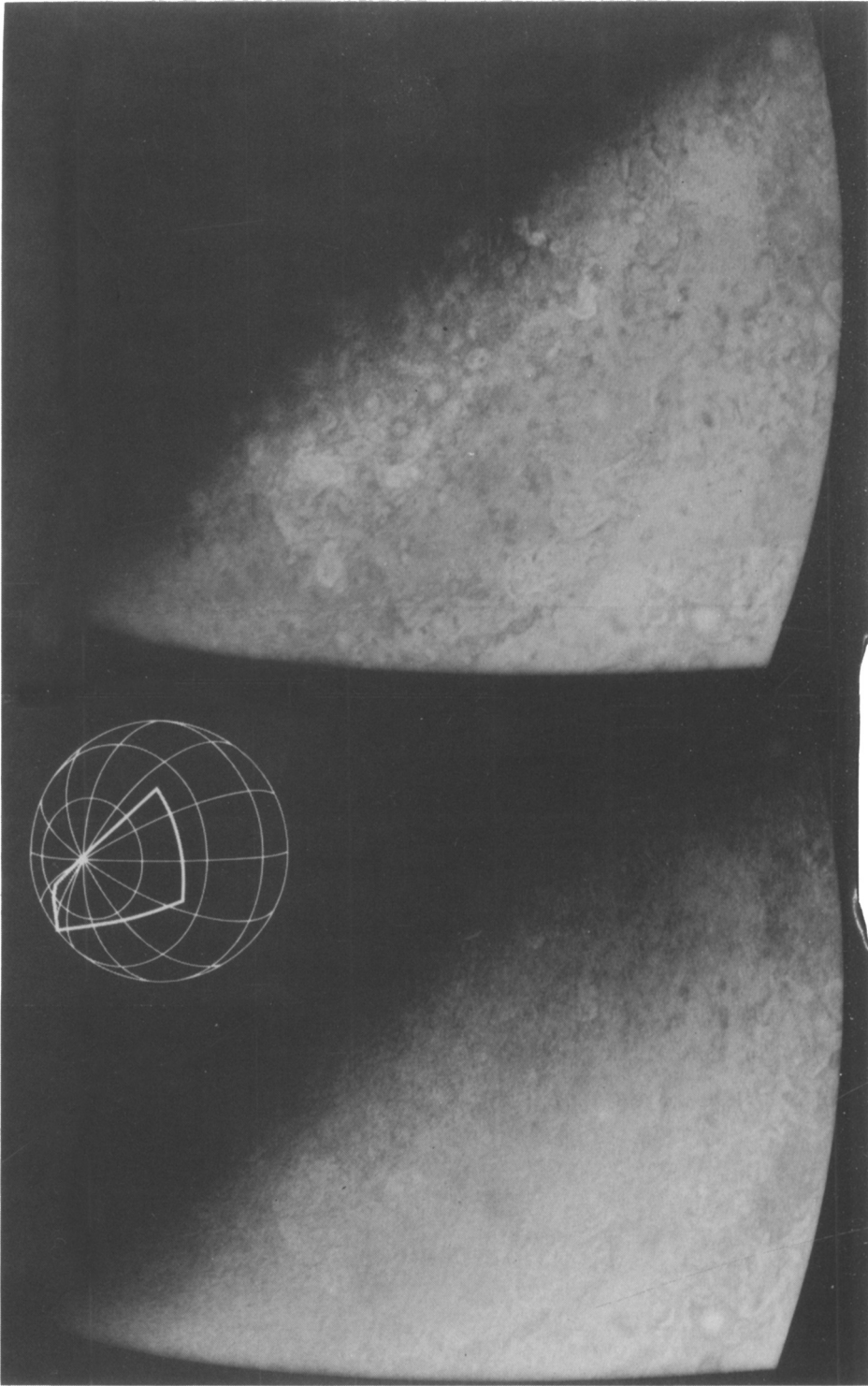


Figure 8 (left). Pioneer 11 D1 blue. 1974 December 3 9:27 UT. Range 0.375×10^6 km, phase angle 64° , LCM2 232°.

Figure 9 (right). Pioneer 11 D1 red. Same data as Figure 8. Inset indicates coverage on planet.

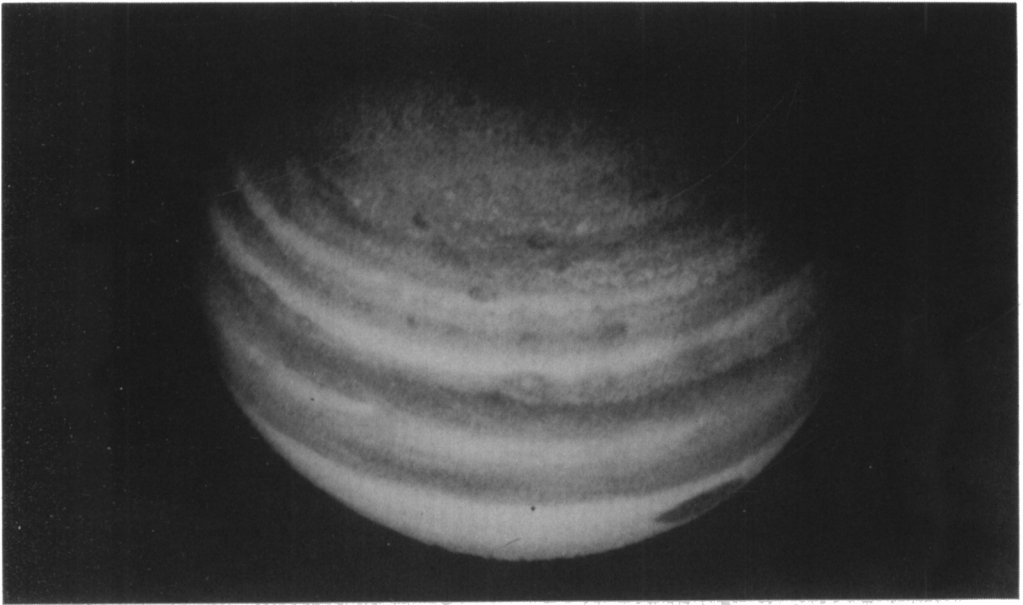


Figure 10. Pioneer 11 D10 blue. 1974 December 3 23:25 UT. Range 1.310×10^6 km, phase angle 40° , LCM2 59° .

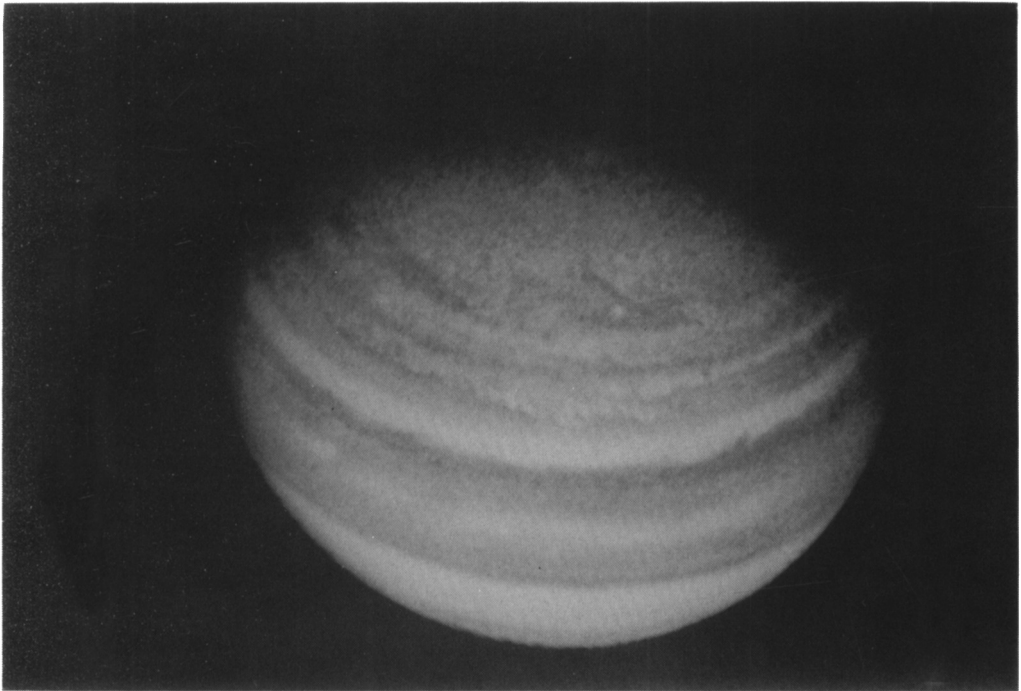


Figure 11. Pioneer 11 D11 blue. 1974 December 4 3:29 UT. Range 1.539×10^6 km, phase angle 40° , LCM2 210° .