

15x15 grid of letters for a crossword puzzle. The grid contains letters in black and empty cells, forming a crossword puzzle layout.

- A. Current world-wide astronomical research program (6,3,10)
B. Erstwhile pole star in Draco (6)
C. ___ velocity, to get to orbit (6)
D. What's required of a geostationary satellite (7,6)
E. Every planet has two of them (11)
F. Aquila (5)
G. Seen without optical aid (5,3)
H. Bright southern globular cluster (5,8)
I. Satellite (4)
J. Glowing gas (8,6)
K. Dark marking in a spectrum (10,4)
L. Seventeenth brightest (3)
M. Where the aptly named Deneb is (2,3,4,2,3,4)
N. Were engaged, as gears in a clock drive (3,6)
O. How Boötes might be described (2,3,5,2,1,4)
P. The result of Pisces' being next to Aquarius? (4,4)
Q. What galactic motions led astronomers to do (8,4,6)
R. Flow out, as the tide (3)
S. Reticulum (3)
T. Most of them were synthesized in stars (3,8)
U. Long wave detector (5,9)
V. Remove a lens cap carefully (4,3)
W. What may be detected around a black hole (9,4)

X. Alien soil, perhaps, returned for study (6)

1 98 147 58 121 115

Y. Light waves too short to see (11,9)

272 277 87 233 38 220 101 148 196 79 191 9 286 21 197 267 123 133 255

Z. Aries (3)

117

aa. What causes lunar eclipses (6,6)

111 175 29

bb. Visual remote sensing data (9,5)

150 112 12 170 95 55 134 258 227 226 129 275

102 215 281 47 122 247 219 257 56 152 17 245 53 159