

ACROSS

1. Seaweed encountered by more than one transit of Venus (ToV) expedition
5. British 1874 ToV scientists attributed "discordant" observations to "the disturbing effect of heat radiated from the illuminating _____"
9. American 1874 ToV scientists noted this feature of a bird called "stinker"
14. _____ Day Multivitamin
15. In his 11-year quest to time a transit, Le Gentil was impeded by _____
16. SN 1987A was a blue-giant's death _____
17. Month in which astronomers at the Wise Observatory celebrate Purim
18. First Japanese space astrometry satellite mission _____-JASMINE
19. _____ refractor objectives have both advantages and disadvantages
20. Captain Cook determined his longitude at sea using this method
23. Transits of Venus _____ very rare
24. Standard time for New York City December 1882 ToV observations
25. One could say Australians _____ their existence to a ToV
26. Placid
28. Cook's men on the *Endeavour* _____ sauerkraut and citrus fruit to prevent scurvy
29. 2009 tropical storm imaged by NASA's TRMM satellite
33. Telescopes on the _____ Islands photographed the 2004 ToV
35. Northwestern University astronomer Geller
36. UV optical phenomenon complicating astronomical unit calculation _____
40. Pays de la _____ hosted a meeting of planetary scientists in October 2011
41. Erich Fromm's _____ of *Loving*
42. O'Hara plantation
43. The VLA stands at an elevation of 6,970 ft (2,124 m) above _____ level
44. Tools used by paniolos near W. M. Keck Observatory Headquarters
48. Famous science-fiction play
49. Telescope design center at ROE
50. Harem room
51. First observer of a ToV (var. sp.)
56. High-altitude observatory?
57. How astronomers at Pic du Midi might call for help
58. Currency used at Vatican Observatory
59. Tycho Brahe took great _____ to have his observations be as accurate as his instruments allowed

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60. Currency for Piazzini when he discovered Ceres
 61. Well, to astronomers at l'Observatoire de Meudon
 62. He calculated the Sun's distance from Earth using 1769 ToV data
 63. Verb astronomers at Hale Pohaku might associate with ahi
 64. *Ifs-butts* bridge
- DOWN**
1. Marsupials native to area explored by James Cook following 1769 ToV
 2. Many astronomers no longer _____ the hardship of cold, dark observatories
 3. In the early 20th century, Berlin astronomy _____ toward the use of astronomical data to study Earth
 4. Prefix in comet's orbit?
 5. Cornwall cape in path of 1999 eclipse
 6. After his disappointing ToV experience in 1761, Le Gentil remained abroad to _____ the 1769 ToV
 7. Galileo's telescope forever changed _____ understanding of the universe
 8. Preliminary model
 9. Director of NASA's Jet Propulsion Laboratory, 1991 to 2001

10. Stylish
11. Perry Mason creator _____ Stanley Gardner was also an amateur astronomer
12. Negative votes
13. American Museum of Natural History astronomer Williams
21. Capture again
22. Total solar eclipse feeling
27. Seaport in Ghana in path of 2004 ToV
28. New Zealand spa town Te _____
29. 1994 trilateral trade bloc
30. What asteroid mining might yield
31. Legendary bird of prey
32. Mz3, the _____ Nebula
34. Transportation networks
35. Commune near Reggio Calabria's Planetarium Pythagoras
36. Diagram for comparing young stellar objects, analogous to H-R diagram
37. HAO's Mauna _____ Solar Observatory
38. On Earth, its main constituents are nitrogen and oxygen
39. More like our own planet
43. Jupiter's mass exceeds the _____ of the other planets' masses

45. Go from rack _____
46. The Mayans _____ Venus
47. 606R refractors and 767 AZ reflectors
48. New Mexico State University astronomer who first published proof of the Great Red Spot's internal circulation
49. Now, to scientists at the Roque de los Muchachos Observatory
51. 18th-century ToV observer _____ -Baptiste Chappe d'Auteroche
52. Infrared astronomer Becklin
53. Saturn's icy rings wouldn't make a good _____
54. Girlfriend, to astronomers at the Astronomy Observatory of Marseilles Provence
55. University of Florida X-ray-binary astronomer Bandyopadhyay
56. Mimic

For answers to the puzzle, see page 67.

Scientist biographer Naomi Pasachoff takes breaks to construct crosswords. Asteroid 68109 Naomipasachoff orbits in the main belt.