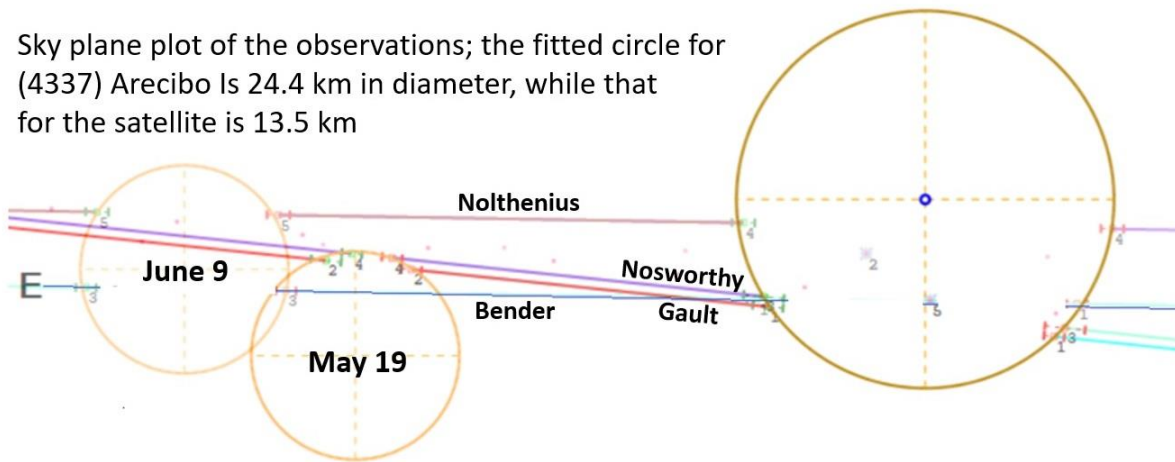


Discovery and confirmation of the satellite of (4337) Arecibo, 2021

Discovery by Peter Nosworthy & Dave Gault, May 19, west of Sydney, NSW, Australia
Confirmation by Richard Nolthenius and Kirk Bender, June 9, central California, USA

Sky plane plot of the observations; the fitted circle for (4337) Arecibo is 24.4 km in diameter, while that for the satellite is 13.5 km



For a good account of these observations, including the videos, please visit https://www.youtube.com/watch?v=w_Cc5Or1FFw
Diagram by Dave Herald using the Occult4 program

On 2021 May 19, Peter Nosworthy and Dave Gault, observing from their observatories west of Sydney, NSW, Australia, both recorded two occultations of a 13.6-mag. star in Sagittarius by the asteroid (4337) Arecibo, discovering a moon of the asteroid. On 2021 June 9, Richard Nolthenius and Kirk Bender observed another occultation, of a 12th-mag. star, by Arecibo with portable telescopes in central California, USA, confirming the satellite and showing that it was 13.5 km across, just over half the size of Arecibo, which Dave Herald's analysis of the observations found to be 24.4 km across. More information about these observations can be found at <http://www.hazelbrookobservatory.com/4337arecibo/> and Peter's good account of the discovery is on YouTube at https://www.youtube.com/watch?v=w_Cc5Or1FFw.

This note was published on p. 10 of the October 2021 issue of *StarDust*, publication of the National Capital Astronomers.