

I wrote on Jan. 17:

ACROSS plans to coordinate the observations of this important event with a Google Map that takes elevation above sea level into account, similar to the Google Earth files by John Irwin and Occult; see Paolo Tanga's message below. So I won't be coordinating the observations for this event, as I've said in previous messages. The medium-range cloud forecasts for this side of the Atlantic, where the event can only be observed from Florida, are poor, so observation of this event are likely to be only from Europe, northern India, and maybe the Middle East. I will look at the Florida forecasts later this afternoon, to decide whether or not to reserve accommodation in the path area north of Orlando (preliminary decision is no). Tomorrow afternoon, I will check again, to make a decision on whether or not to keep our current flight reservations to Orlando, or cancel them. I don't know how ACROSS's orbit compares with JPL#201.

In North America, we'll be concentrating more on tonight's occultation of a 13.1-mag. star in southern Florida, with a possible effort in southernmost Arizona, if the forecast is for clear-enough skies there; and the new occultation of a 10.6-mag. star in the northwestern USA and British Columbia; see our recently-updated page at <https://occultations.org/publications/rasc/2023/nam23NEAoccs.htm> and the .pdf document there at <https://occultations.org/publications/rasc/2023/nam23NEAoccs.pdf> for details of these and a few other Didymos opportunities.

David

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To: "Planoccult list" <planoccult@AULA.COM>
Cc: "Guillaume Langin -Ciel & Espace-" <guillaume.langin@cieletespace.fr>, "Dr. Damya Souami" <damya.souami@obspm.fr>, "David Dunham" <dunham@starpower.net>
Sent: Tuesday, January 17, 2023 11:41:32 AM
Subject: DIDYMOS event on Jan 21/22, 9-mag star - UPDATE

Dear all

=== UPDATE for the Trans-Atlantic Dydimos event on the night of January 21 - 22 ===

Following the last JPL orbit update (s201) there is a ~200 m cross-track shift for the event, towards North. This is NOT a major shift (about 1/4 the size of the object), and must be CONFIRMED by observing this additional event.

The new PATH MAP includes the update to the new orbit, with the addition of yellow fence lines to be covered by the observers:

--> <https://www.google.com/maps/d/u/0/edit?mid=1ipm3HGo3kW8Jbnvo4AGr8WC-LDpqyqs&usp=sharing>

NOTE: there are more FENCE LINES to the South, in order to cover a possible South shift compatible with the previous orbit solution.

OBSERVERS: please pick a line and REGISTER in this table (fence tracks have the same name as in the path, and same order top to bottom):

--> <https://docs.google.com/spreadsheets/d/1SFz-OBxGyc3EQKkogncTz6ccOTm0f6JnihEL8RM-PQ/edit?usp=sharing>

RECOMMENDATIONS

If all fence lines are taken:

- Duplicate coverage of same fence lines is useful, especially if well separated in longitude (to avoid as much as possible weather issues).
- Intermediate positions between fence lines are also useful, in particular close to the central portion of the path, where also Dimorphos could be observed (with fast enough frame rates).

DO NOT REFER TO THE PATH IN OWC, NOT CORRECTED FOR TOPOGRAPHY.
But of course you can use OWC to access the detailed FINDING

CHARTS: <https://cloud.occultwatcher.net/event/750-65803-103092-649936-T01892-1#>

The information available here is also update on the corresponding ACROSS page: <https://lagrange.oca.eu/fr/blog/4027-campaign-for-january-21-2023-occultation-by-a-9-mag-star>

PLEASE SEND RESULTS TO across@oca.eu and UPLOAD to the Occultation Portal.

Clear skies to all observers - on both sides of the Atlantic!

Paolo

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Gaia (data processing of solar sytem objects)

ACROSS (collaborative occultation observations for NEAs)
