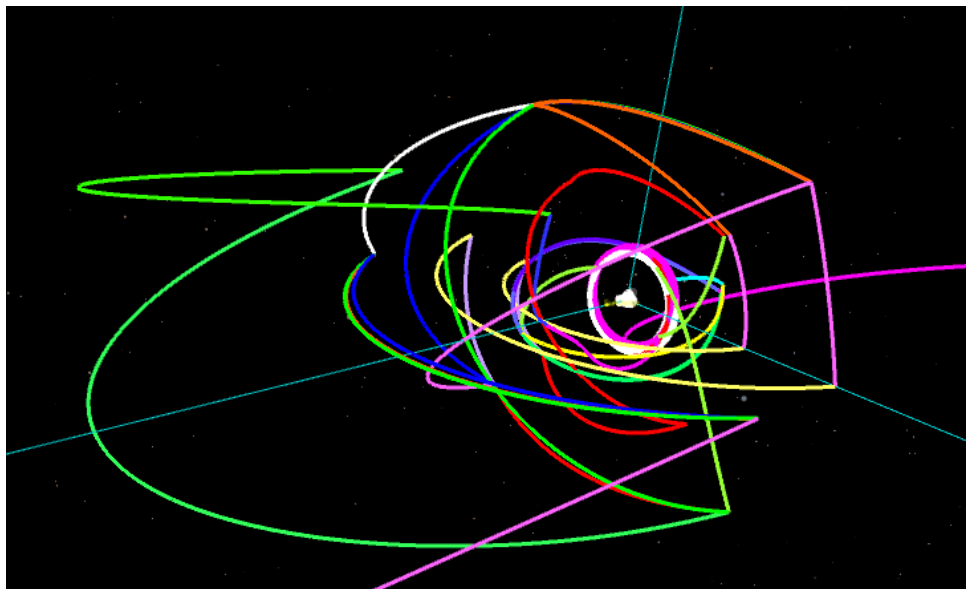


Reconnaissance of Apophis (RA)

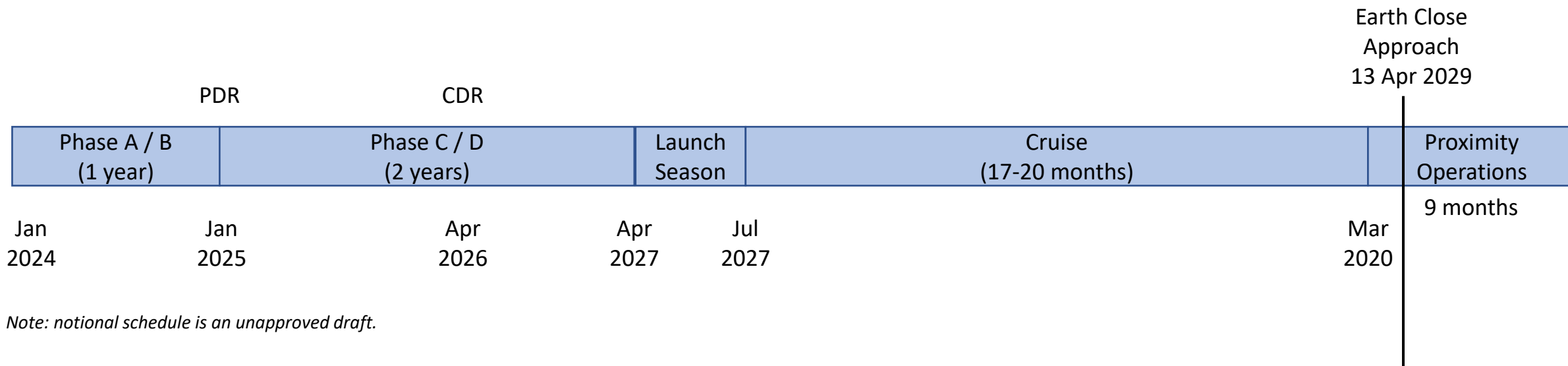
NASA/Goddard Space Flight Center (GSFC)

RA is Carefully Designed to Provide Significant Science On a Smallsat Budget

RA is a capable smallsat rendezvous mission able to detect any disturbances to Apophis during the 2029 Earth approach, through both real-time observations and comparison of pre-/post-Earth close approach survey data. The shape models will have a resolution of ≤ 30 cm, with resolution as fine as 5 cm in select areas. Proximity operations have been designed based on OSIRIS-REx heritage, by personnel with OSIRIS-REx flight operations experience.



Notional Schedule for RA



RA can follow Apophis through Earth close approach while both maintaining passive safety and remaining close enough to collect real-time observations.

