NOT A REAL WORLD EVENT  This is part of an asteroid threat exercise conducted during the 2015 IAA Planetary Defense Conference.

Asteroid’s Chance of Impacting Earth in 2022 Now 43%  

Paul W. Chodas (International Asteroid Warning Network/JPL)

Press Conference, April 4, 2016
Chance of Impact in 2022 is Now 43%

- After nearly a full year of continuous tracking, the orbit of asteroid 2015 PDC is known more accurately
- The new data did not eliminate the possibility of impact
- IAWN now estimates the likelihood of impact on Sept. 3, 2022 at 43%; the Torino Scale rating is 5 (Orange)
- No further updates are possible for 8 months
- Several space-faring nations have already begun developing deflection missions; they would launch 3 years from now, in August 2019
- Size of 2015 PDC is still very uncertain, but the Spitzer Space Telescope might be able to observe it in early 2018
- For more info: [http://neo.jpl.nasa.gov/pdc15/day2.html](http://neo.jpl.nasa.gov/pdc15/day2.html)
Uncertainty Region in 2022
Uncertainty Region in 2022

To Sun

EXERCISE ONLY!!
Risk Corridor for 2015 PDC

Risk corridor extends more than halfway around the world, from the eastern Pacific Ocean, across the South Pacific, through the Philippines, South China Sea, Southeast Asia, Myanmar, Bangladesh, India, Pakistan, Afghanistan, Iran, and Turkey.
Apparent Motion of 2015 PDC
Solar Elongation vs. Time to Impact

![Graph showing solar elongation vs. time to impact.](image-url)
Visual Magnitude vs. Time to Impact
Design Your Own Deflection Mission

http://neo.jpl.nasa.gov/nda

Read overview
Start the app
Take a tour of the app using the 2015 PDC scenario

EXERCISE ONLY!!