

# Illustrative Presentation

in support of

## *The Real Deflection Dilemma*

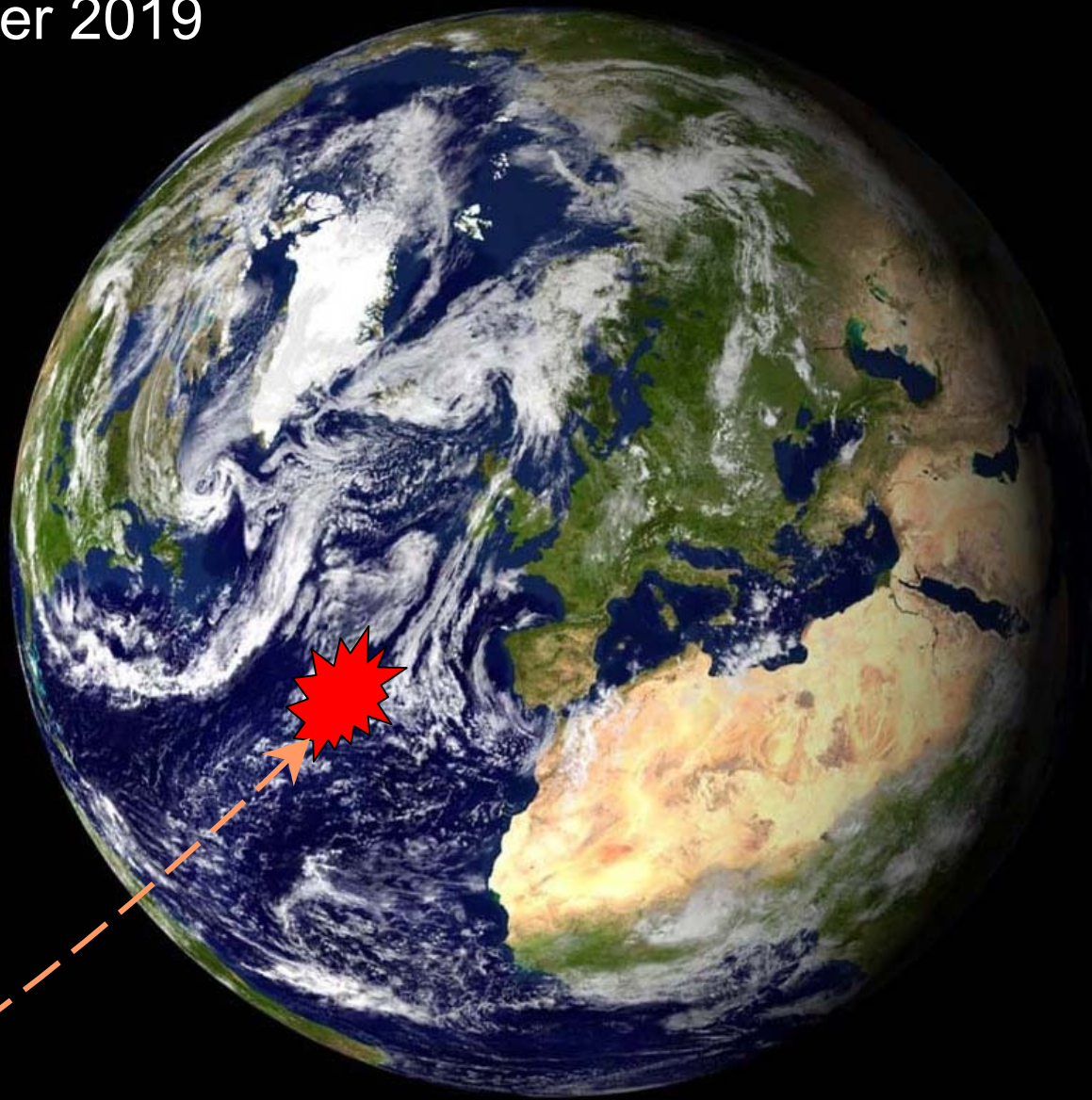
Russell L. Schweickart  
Chairman, B612 Foundation

# The Deflection Dilemma

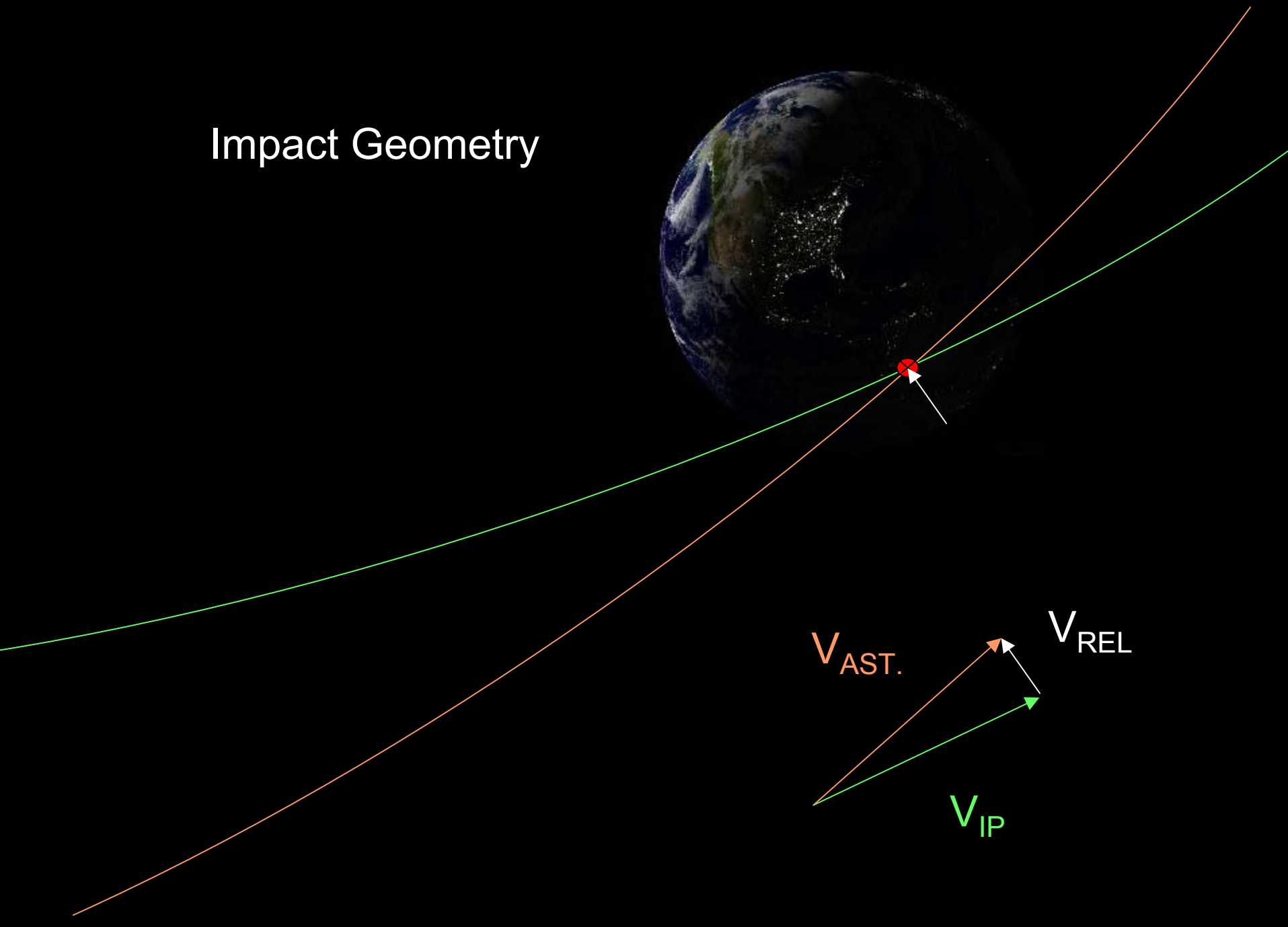
$1.4 R_e$



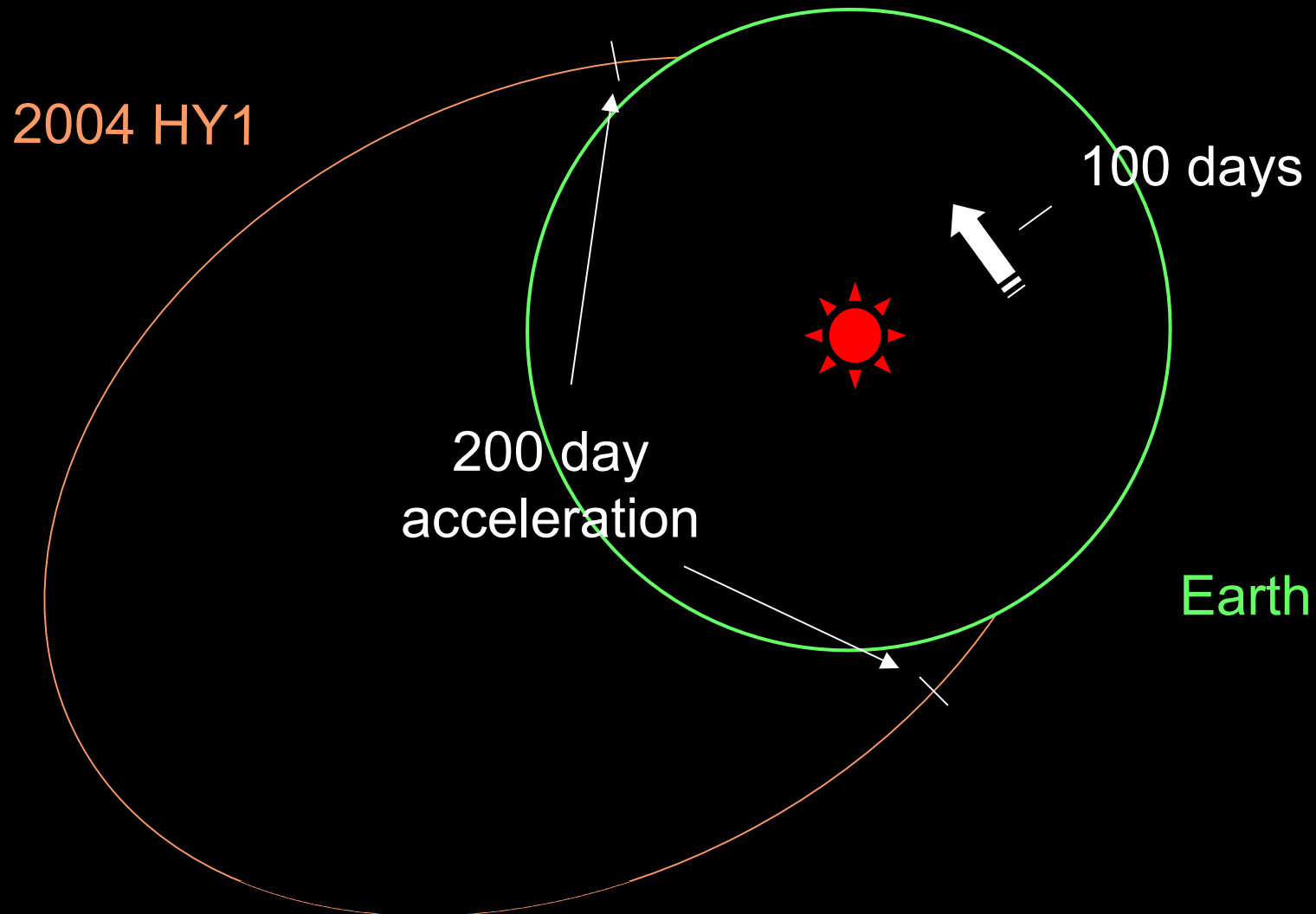
Impact of 2004 HY1  
20 October 2019

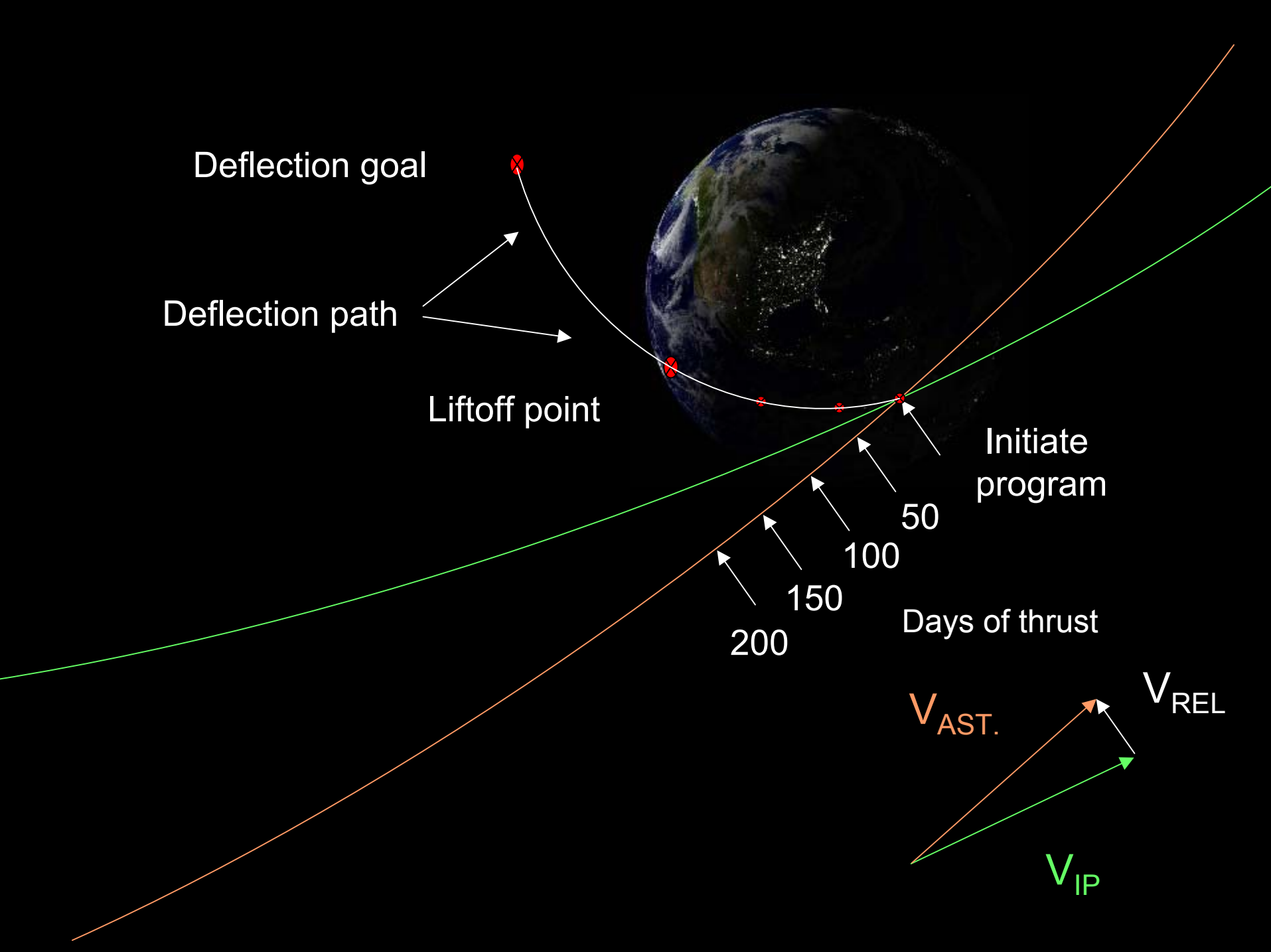


# Impact Geometry



# Hypothetical Asteroid Deflection





Deflection goal

Deflection path

Liftoff point

Initiate program

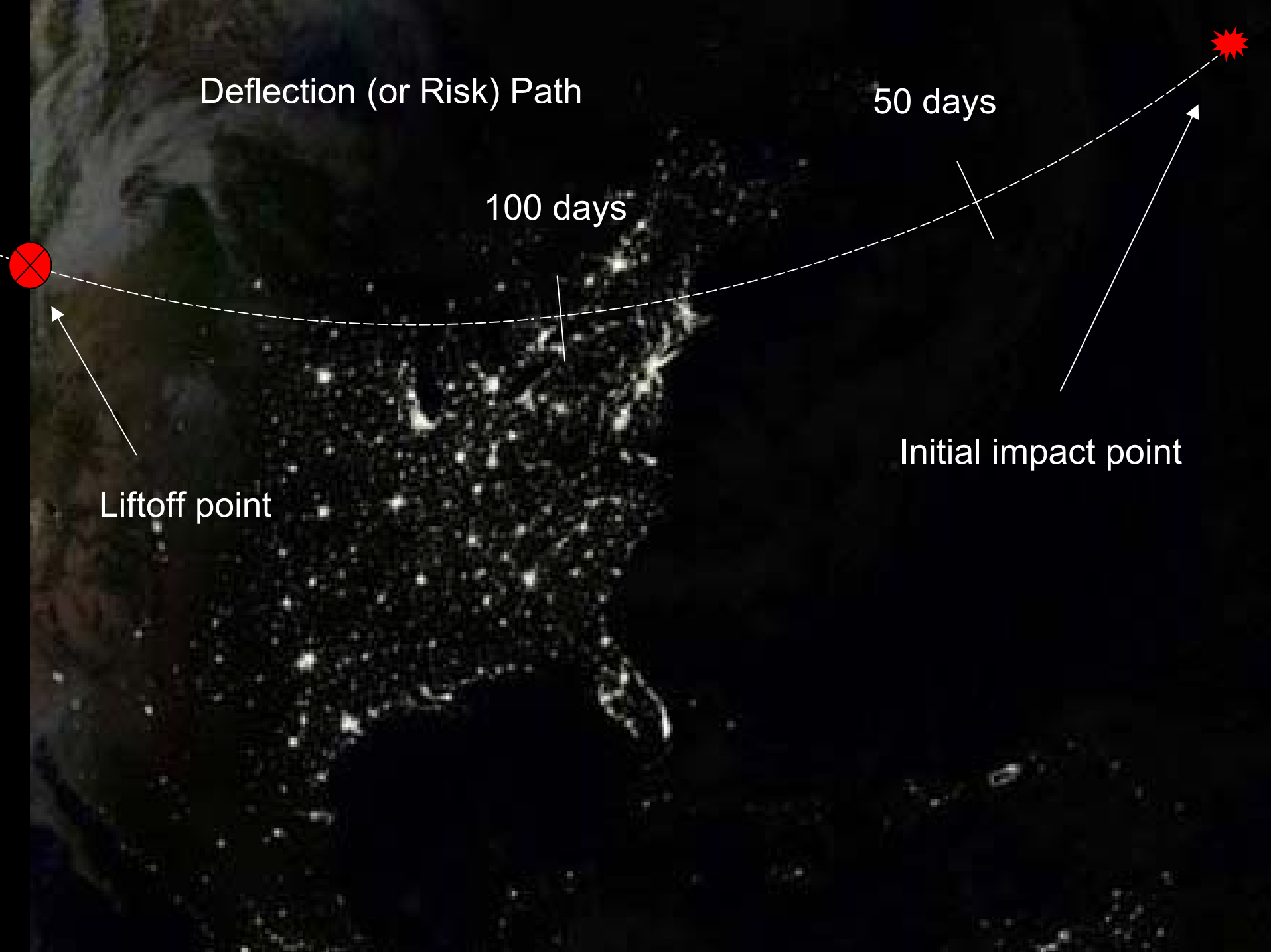
Days of thrust

$V_{AST.}$

$V_{REL}$

$V_{IP}$

50  
100  
150  
200



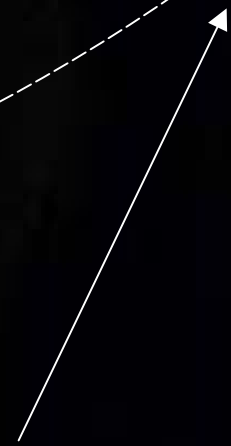
Deflection (or Risk) Path

50 days

100 days

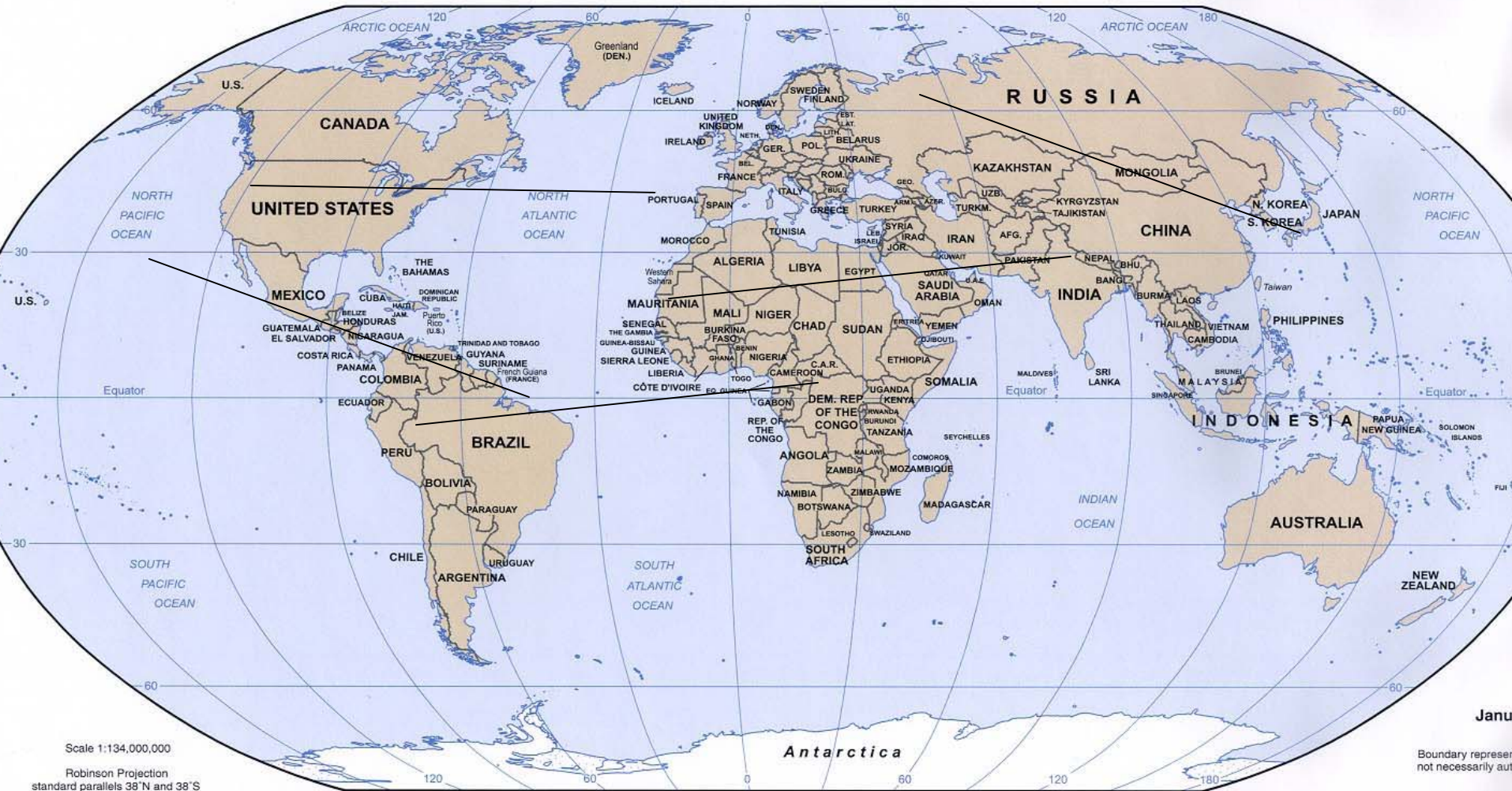


Liftoff point



Initial impact point





Scale 1:134,000,000

Robinson Projection  
standard parallels 38°N and 38°S

Janu

Boundary representation  
not necessarily authoritative

802804A1 (F