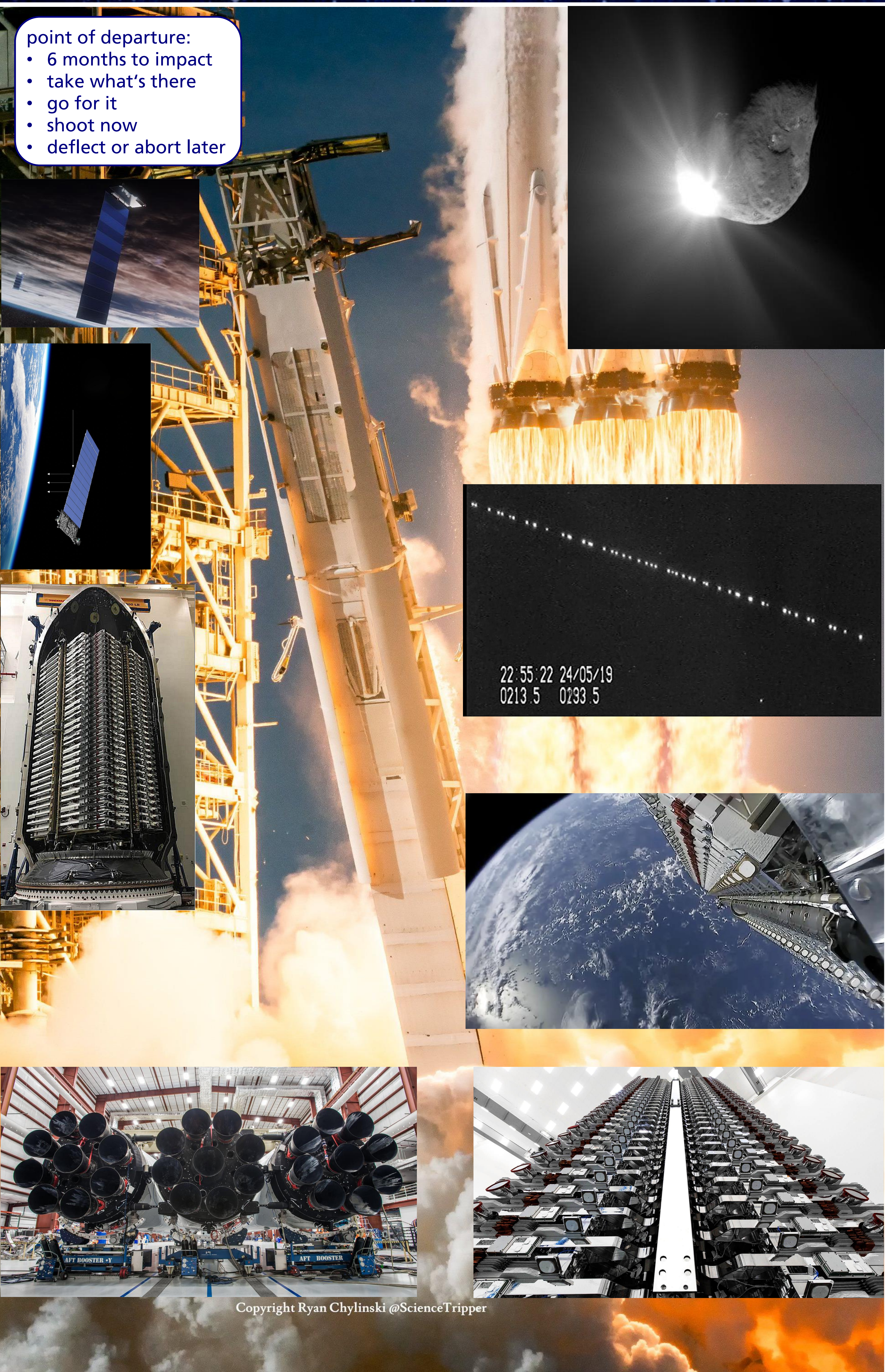


More Bucks for the Bang: New Space Solutions, Impact Tourism and one Unique Science & Engineering Opportunity at T-6 Months and Counting

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ASTEROIDSQUADS/ISSB

...or how to solve one problem by adding 5 more :

- flashback:
 - PDC 2011
 - very big launcher
 - many small impactors
 - AsteroidSQUADS/ISSB
 - just a test & exercise

Dimension	1m x 0,78m x 0,7m
Sunshield	= a few negotiable protrusions
Mass	179 kg incl. 35 kg instruments & 25 kg propellant
Payload	2 x Narrow Angle Camera 4 x Medium Angle Camera 4 x Wide Angle Camera
Communication	1 x Ka-band antenna 2 x X-band antenna 4 x Interlink antenna
ACS	Propulsion (8 x 1N thrusters, 1x 400N thruster)

ASTEROIDSQUADS/ISSB: Serendipitous Quantitative Understanding and Assessment of Deflection Strategies using the DLR Kompaktsatellit bus kit evolved and improved for interplanetary flight

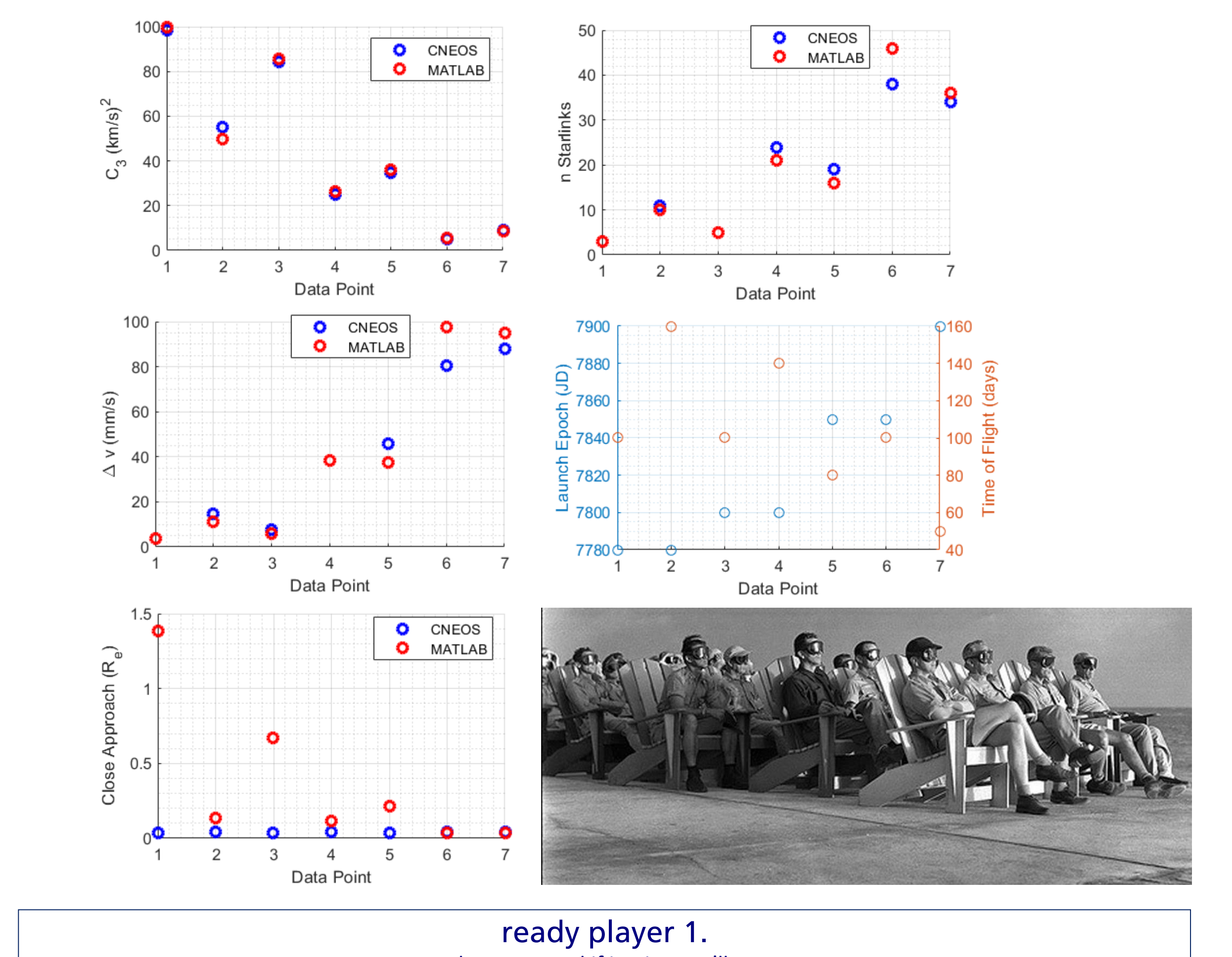
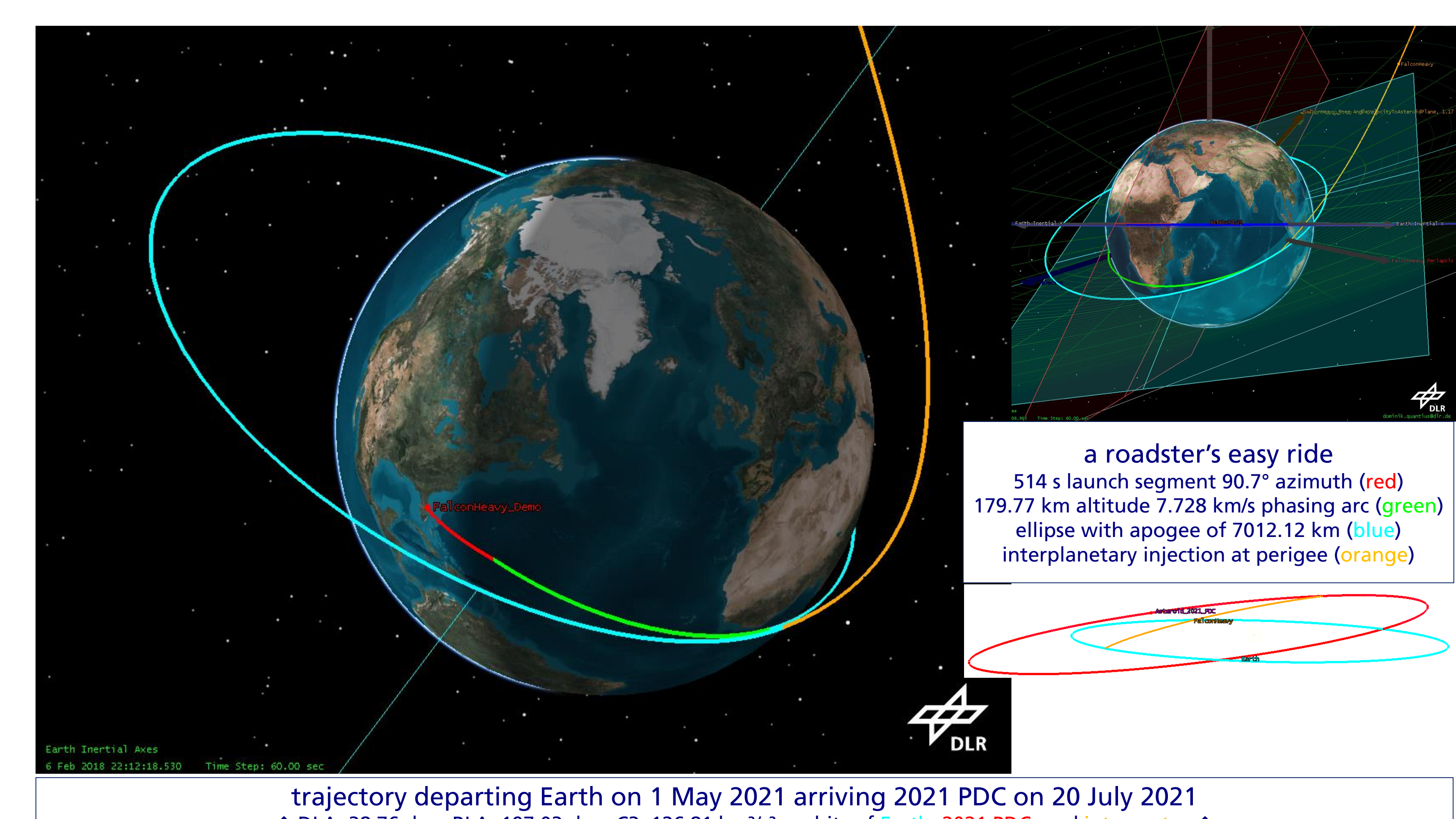
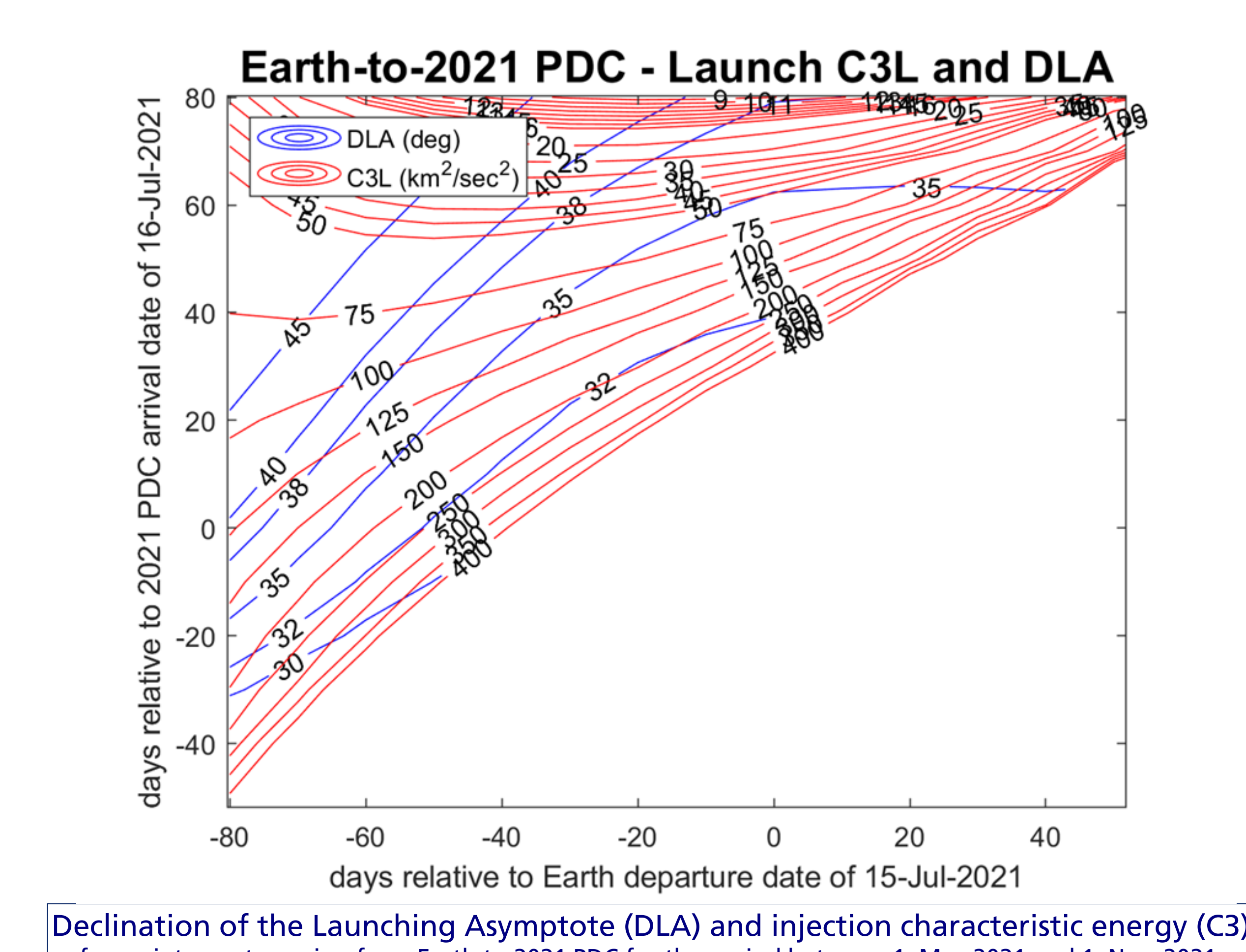
10 years or 5 PDCs

flotilla impact sequences – close pair

flotilla impact sequences – single impactor

Launcher Configuration: 20 impactors – 2 heavy

outlook & future work: more serious launchers, more serious targets



For 10 years of 'fun papers' we have practiced to defend Earth from challenging asteroids using small spacecraft, shoebox-sized nanolandings, and membranes thinner than a human hair sailing on nothing but sunshine. Keep 'em coming!
We welcome 2021 PDC!

...it seems the future has happened.
„Dear Elon, unfortunately....“



for daily updates during the PDC 2021 & more visit us at https://gla-my.sharepoint.com/f/g/personal/i_moore_3_research_gla_ac_uk/Eg-ISGBx0L1j9i89EGGYOABFNlvtITj8df4PnLXHzkQ?e=sXLol2