

Inter–Agency Space Debris Coordination Committee



IT 37.1 Preparation for a Future Beampark Campaign

42nd IADC Meeting
Bengaluru, India
16-19 April 2024

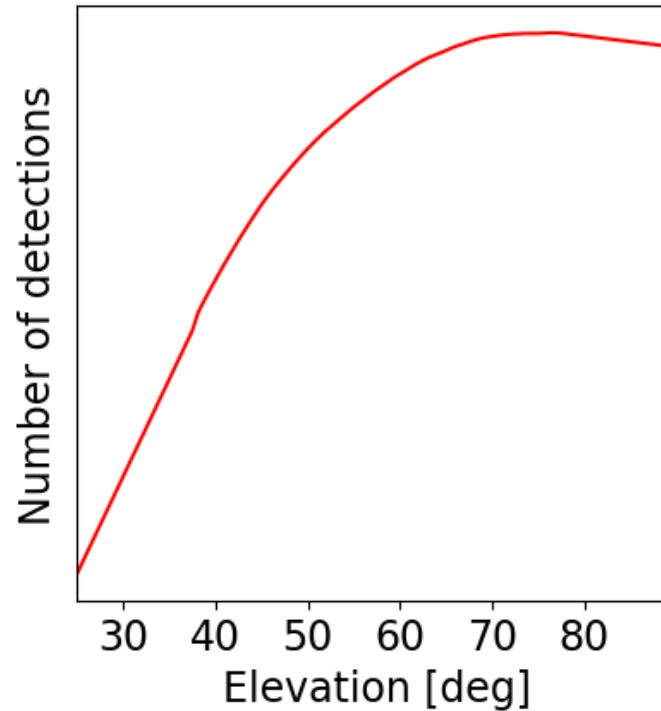
Coordinators: Jan Siminski, Tim Payne

Agenda

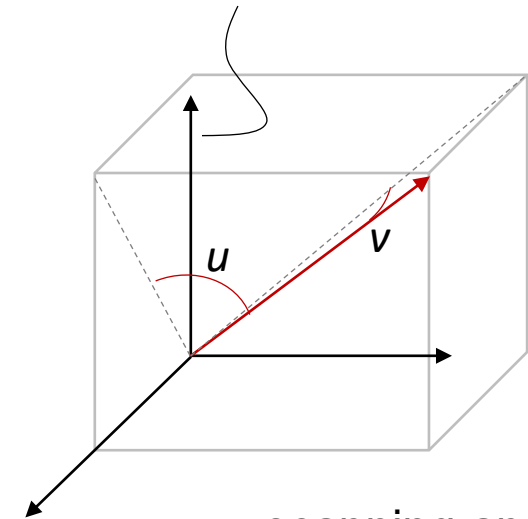
1. Confirm participation and identify each agency POC
2. Document each agency's preferred collection configuration (pointing, duration)
3. Agree to collection window timeframe
4. Draft Action Item to send to steering committee for approval

Phased-array pointing recommendation

- High elevation to increase number of detections, e.g. South 70-90 degrees



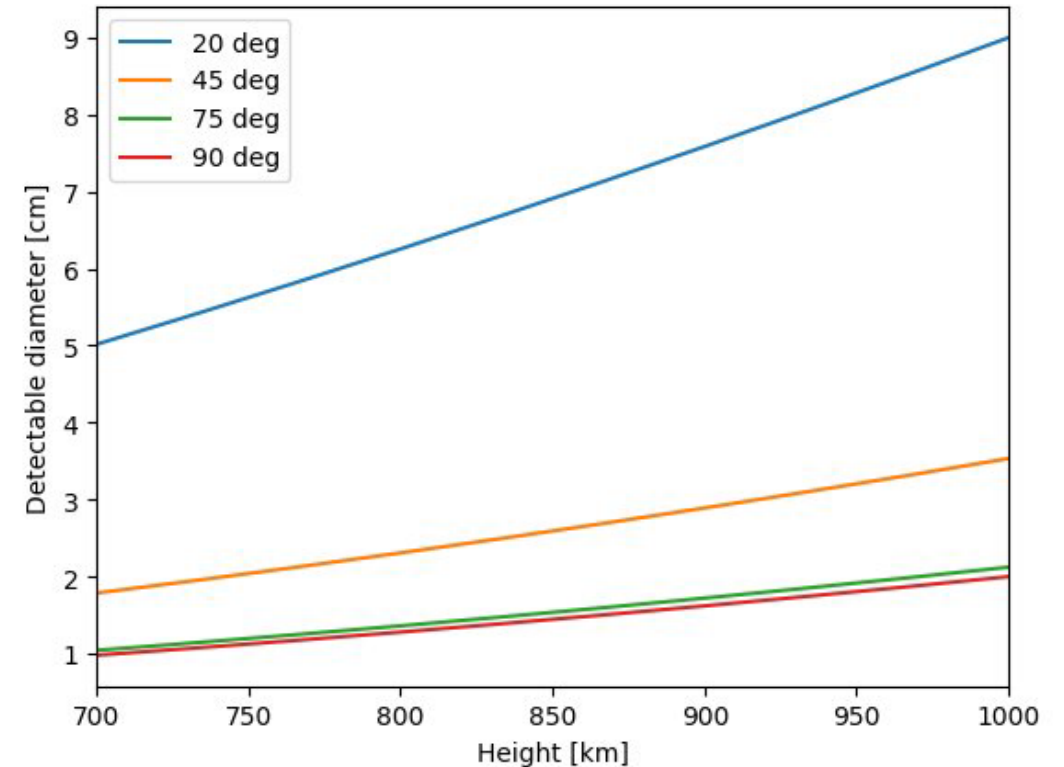
Phased array plane normal



scanning angles
40 x 120 deg

Pencil-beam radar recommendation

- East 75 deg for detection performance / doppler inclination resolution and comparability with past data
- South 10/20 deg for low-inclination, but only >5 cm diameter



2 cm @ 1000 km

Summary

	Participation	POC	Size/Alt/Lat	Preferred pointing	Preferred Duration	Time frame
ASI	Undetermined		Bi-static w/ TIRA?			
CSA	Possible					
ESA	Confirmed		2cm/1000km/N 50.6 2cm/1000km/N 69.5	75E, 20S 75E		End 2024 End 2024
ISRO	Confirmed		50cm/800km/N 13.7			
JAXA	Confirmed		10cm/650km/N 35.3			
NASA	Confirmed	Alyssa Manis	1cm/1300km/N 42.6	75E, 20S, 10S	3 / 8-hour shifts	Fall 2024

Did we miss any delegation that wants to participate?