

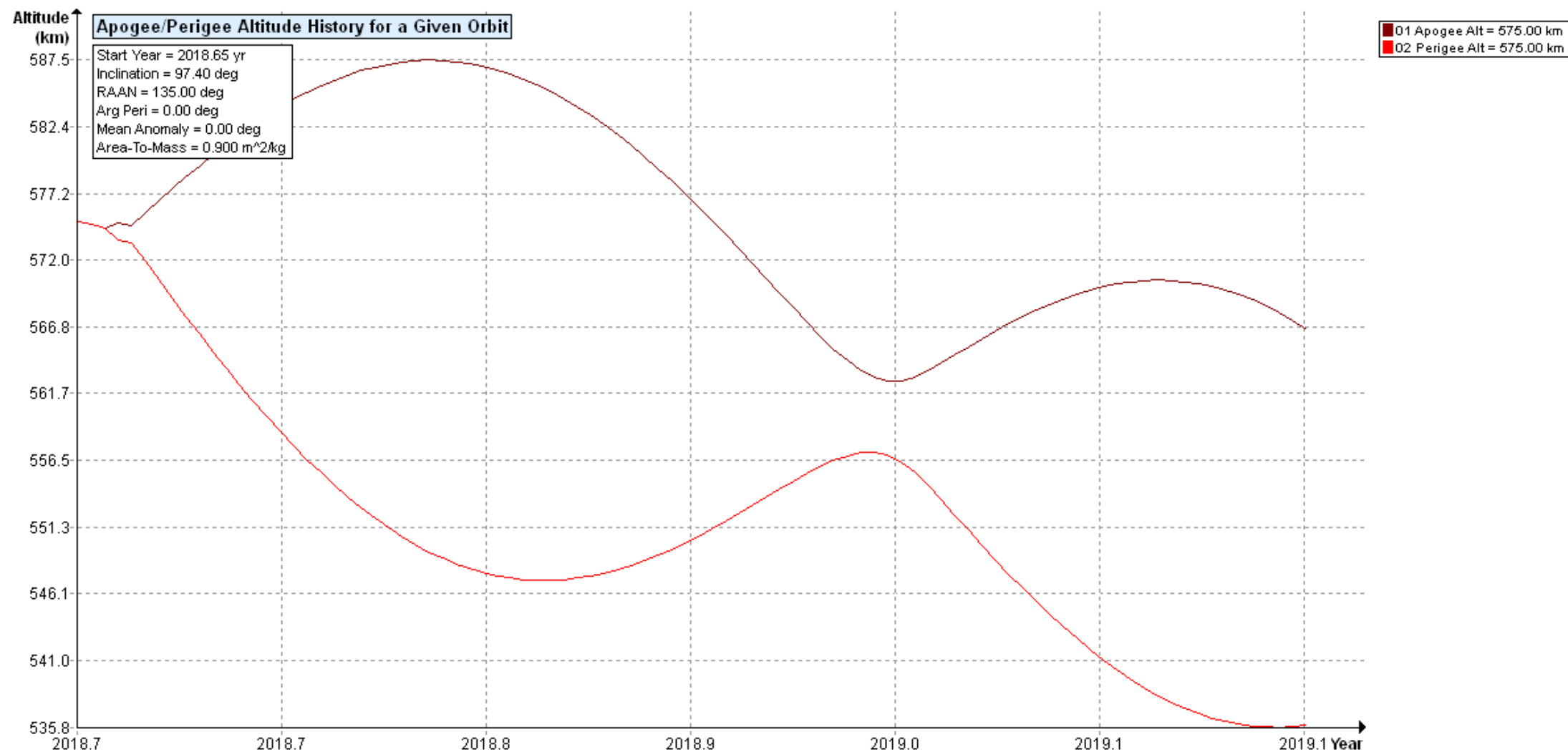
Component Data								
	Name	Quantity	Material Type	Object...	Thermal Mass	Diameter/Width	Length	Height
					(kg)	(m)	(m)	(m)
1	OR Sat	1	Aluminum (generic)	Box	2.9	0.102	0.3401	.101
2	Circuit boards	4	Fiberglass	Box	0.050	.1	.101	.099
3	Cannisters	2	Aluminum 2024-T3	Cylinder	.045	0.025	0.1	
4	membrane	1	Polyimide	Cylinder	.6	1	30	
5	screws	100	Stainless Steel 17-4 ph	Cylinder	0.00009	0.004	0.004	
6	aluminum compone...	1	Aluminum (generic)	Box	2.2	.1	.34	.1

Run

Help

Output				
Object	SubComponent	Demise	Total Debris	Kinetic
Name	Object	Altitude (km)	Casualty Area ...	Energy (J)
	Circuit boards	77.5	0.00	0
	Cannisters	75.9	0.00	0
	membrane	78.0	0.00	0
	screws	77.5	0.00	0
	aluminum co...	67.9	0.00	0

DAS ODAR Output – all demise altitudes are over 50km



DAS- Generated Apogee/Perigee History

Orbit Lifetime Calculated by DAS 2.1.1

Orbit Lifetime/Dwell Time

Input

Start Year (ex: 2005.4)

Perigee Altitude km

Apogee Altitude km

Inclination deg

R. A. of Ascending Node deg

Argument of Perigee deg

Area-to-Mass m²/kg

Output

Calculated Orbit Lifetime yr

Calculated LEO Dwell Time yr

Last year of propagation yr

Messages

Object reentered.

Requirement 4.3-1 Mission-Related Debris Passing through LEO

(Requirement 4.3-1) Debris Passing through LEO

Mission-Related Debris in LEO

	Debris	Released	Quantity of	Area-To-Mass	Perigee	Apogee	Inclination
Row	Name	Year	Each Element	(m ² /kg)	Alt (km)	Alt (km)	(deg)

Run Requirement Help

Output

	Debris	Compliance	Lifetime	Object Time
Row	Name	Status	(yrs)	(obj-yrs)

TOTAL OBJECT TIME:
0.0 obj yrs

Messages
Requirement 4.3-1 Compliant

compliant

Requirement 4.3-2 Mission-Related Debris Passing near GEO – (Not Applicable)

(Requirement 4.3-2) Debris Passing Near GEO

Mission-Related Debris in GEO

	Debris	Released	Quantity of	Area-To-Mass	Perigee	Apogee
Row	Name	Year	Each Element	(m^2/kg)	Alt (km)	Alt (km)

Run

Requirement

Help

Output

	Debris	Compliance	Final Apogee	Inclination
Row	Name	Status	(km)	(deg)

Messages

Requirement 4.3-2 Compliant

compliant

Requirement 4.4-3 Long-Term Risk from Planned Breakups

(Requirement 4.4-3) Planned Breakups

Input

	Pre-Breakup	Pre-Breakup	Breakup Altitude
	Perigee Alt (km)	Apogee Alt (km)	(km)

Run Requirement Help

Output

	Component	Compliance	Object Time (≥ 10 c...	Number of Debris (≥ 1 ...
	Type	Status	(obj-yrs)	with Lifetime Over 1 yr

0.0 Longest-Lived Object-Time Product (obj-yrs)

Messages

Requirement 4.4-3: Compliant

compliant

Requirement 4.5-1 Probability of Collision with Large Objects

Input

Start Year

	Space	Perigee	Apogee	Inclination	RAAN	Argument of	Mission	Fin
	Structure	(km)	(km)	(deg)	(deg)	Perigee (deg)	Duration (yrs)	Rat
ORSat	Payload	575	575	97.4			.5	.9

Run Requirement Help

Output

	Space	Compliance	Collision
	Structure	Status	Probability
ORSat	Payload	Compliant	0.00001

Messages

Requirement 4.5-1: Compliant - ORSat

compliant

Requirement 4.5-2 Probability of Collision with Small Objects

compliant

RunRequirementsHelp

Output

Spacecraft	Compliance	Probability of	Critical	Probability of
	Status	PMD Failure	Surface	Penetration

Messages

Requirement 4.5-2: Compliant

Requirement 4.6-1 to 4.6-3 Postmission Disposal

(Requirement 4.6-1... 4.6-3) Postmission Disposal of Space Structures

Requirement 4.6-1

Space Structure	Space Structure	Compliance	Suggested Perigee	Suggested Apogee	Perigee	Apogee	Inclinatio
Name	Type	Status	Altitude (km)	Altitude (km)	Altitude (km)	Altitude (km)	(deg)
ORSat	Payload	Compliant			575	575	97.4

compliant

Requirement 4.8-1 Collision Hazards of Space Tethers – Not Applicable

