Source/Cause	Hazard	Parameters	Effect	Danger Zone	Mitigation	
Earth's atmosphere	Drag	Air density	Shortens orbital lifetime	LEO	Go to higher orbit	
		Ballistic coefficient			Periodically adjust orbit	
	Atomic oxygen	Mass	degrades spacecraft surface	LEO and beyond	atmospheric 08ans 0+0 => 02	
Being in a vacuum	Out-gassing	molecule muterial released	can causs slectronics to maldunction	960 km	Bake muterials ensure howerfuls clout have trapped y	RSSES
	Cold-welding	port muterial -comperature	materials sind and couse failure	960 Km	use ludricants avoid moving parts	
	Inability to shed heat	temperature radiation	Things get not quirky	vacuum 960 km	big radiating surface areas	
Past and present missions	Space debris	2/8 &	physical change	Above	track debris	
		speed	1 3	Above 65 km	minimize debris	
		collision (angle point	spacecraft	LED	USE SATIONGER MUTERIAL	
		composition	, v		carry replacement	ţ
Solar system	Micrometeoroids	SIZE SPEED Collision Point	-shoriens orbital lyespan	ourside 65km	strong materials track micrometeroids	
The sun	Radiation	composition			materials stronger	
		10-102 rad for bislogical matter above 102 dor oxher	human injury Part degradation over heating	outside magnetosphere	to radiation.	
	Solar pressure	spacecraft surface area	Orbital Perturbations	outside magnetosphere	use solar pressure as motive force ⇒ Solar Sailing	
Solar wind and flares	Charged particles	muss of particles	charging	outside	replace with Stronger material	
Galactic cosmic rays		Temp. Energy	sputering	mesosphere	magnetic field on specific material layer	
Van Allen radiation belts		wave tength Plank's Constant	Single Event pheninenin Total dose		Some material or shield prevent ultrajest electrons to cause Electrical overload.	l to
		Distance	Effect		Rectrical overtoad.	

aurora Storealis
austrialis