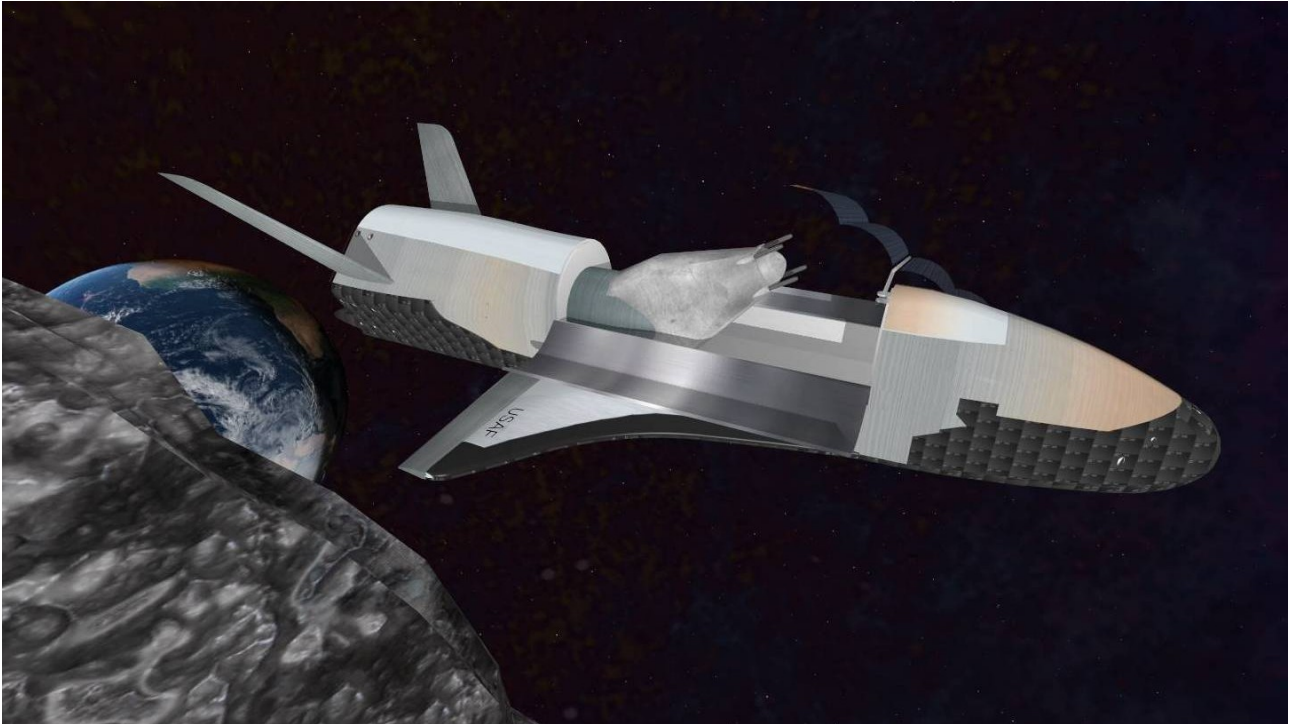


X-37 Orbital Test Vehicle

The Prince of Darkness is coming! The comet 'Anduru' came from deep space into the Solar system. After shedding excessive speed in swing-by maneuvers around the major planets, it ended up in a highly elliptical orbit around Earth. An X-37 space plane is sent to investigate the suspicious comet.

The story is based on the book [Wherever Seeds May Fall](#) by Peter Cawdron.



Key Commands

B ...	Airbrake
C ...	Clear bullets (within an Orbiter session)
E ...	Camera view cycle
G ...	Gear
Space ...	Fire gun
J ...	Jettison payload
Ctrl-J ...	Jettison service module
K ...	Open / close payload bay doors
S ...	Deploy / retract solar panels
U ...	Deploy / retract gun
Space ...	Fire gun

Scenario Keywords

MODE n ...	0 = launch, 1 = orbit and landing
DOOR	Payload bay door open
GUN nn ...	Armed with a gun in the payload bay; nn = number of rounds, max. 64
SM ...	Service module attached
SOLAR ...	Solar panel swiveled out

Scenarios	Description
X-37 1-Launch to Anduru	A strange object has moved into a highly elliptical Earth orbit. Launch the X37 on a FaclonHeavy to investigate it. The FalconHeavy addon is required for this scenario.
X-37 2-Approach to Anduru	Approach carefully and investigate the comet Anduru. After the reconnaissance mission turn retrograde and burn for a periapsis altitude of 55 km. Aerocapture during several passes through Earth atmosphere.
X-37 3-Finals on KSC	Approach the KSC spaceport. Use upward trim to adjust the flight path.
X-37 Molniya launch	Press [V] to launch into a 200 km x 600 km orbit with 63.4° inclination. Circularize to a 600 x 600 km parking orbit. After a few orbits, burn over the South Atlantic to a Molniya orbit with an orbit time (T) of 43 046 sec and an apoapsis height of 39 750 km.
X-37 Payload Test	Open the payload bay doors [K], deploy the solar panels [S] and jettison the ,Ion Sled‘ payload [J].

Specifications	X-37	With Service Module
Length [m]	8.8	9.5
Wingspan [m]	4.6	
Height [m]	2	
Dry mass [kg]	4000	4500
Fuel Mass [kg]	1500	2000
ISP [m/s]	3 200 (x 1.1)	
Main thrust [N]	14 700	

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The service module was made by BrianJ.

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