

Deep Star

user manual

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October 8, 2006

Disclaimer

This software is provided as it is without any warranty of any kind.

The project has been developed to be used as an add-on for Orbiter Space Flight Simulator by Martin Schweiger (www.orbitersim.com). **Designed for Orbiter 2006 Edition, patch 1 (build 060929).**

Deep Star description

Deep Star is a hypothetical probe for deep space research. The spaceship has no real prototype.

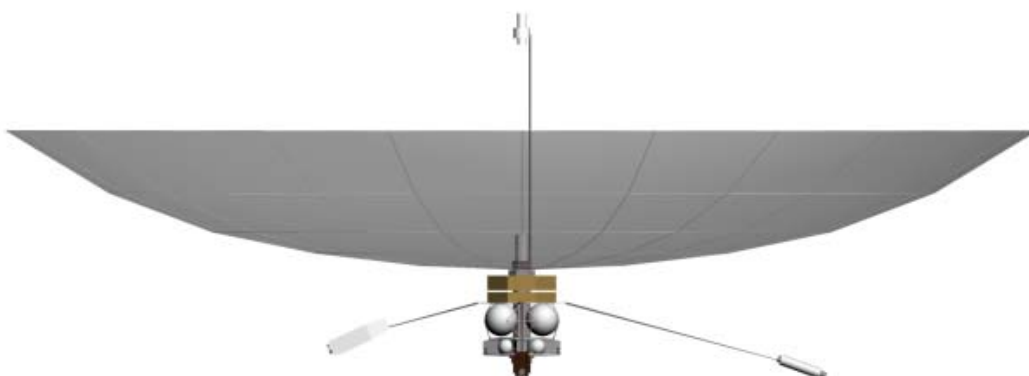
Technical Specifications

| | |
|---------------------------------|--------|
| Length in transportation mode | 11.6 m |
| Length in deployed mode | 17.6 m |
| Diameter in transportation mode | 4.1 m |
| Diameter in deployed mode | 50 m |
| Total mass | 4.8 t |
| Ion drive fuel mass | 2.0 t |
| RCS fuel mass | 0.3 t |
| Ion drive thrust | 5.0 N |

The spaceship has an ion drive as a main engine. The RCS system can automatically turn the probe's aerial towards the Earth.

Spaceship Projections

The side projection and the spaceship perspective image are shown below. The both images are given with deployed Earth-link aerial.

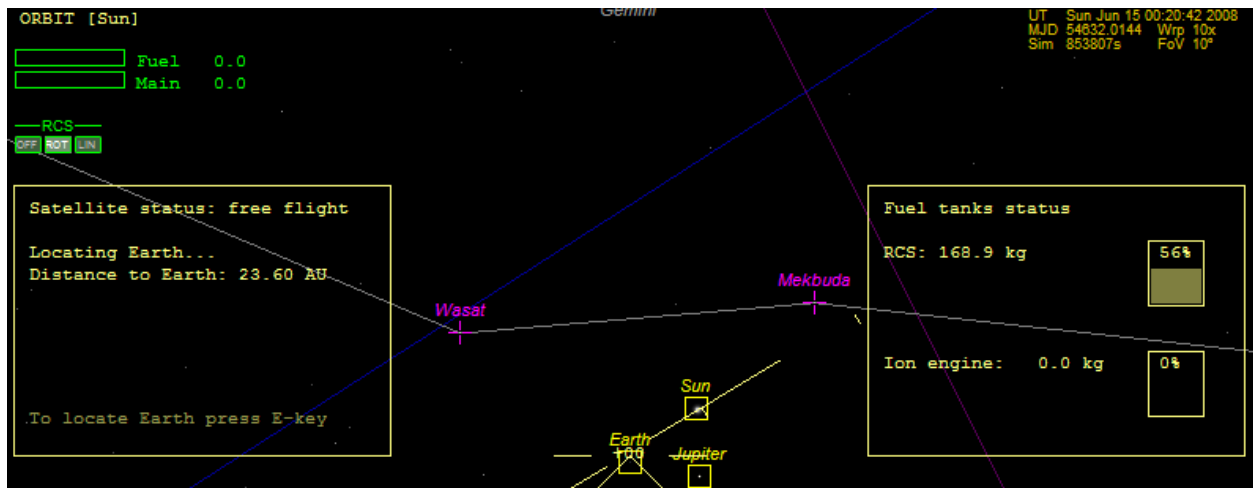




new !

HUD

To provide some flight information Deep Star is equipped with a special HUD, see the picture:



On left side:

Current spaceship status, autopilot state

On right side:

Fuel for main and RCS fuel tanks

Keyboard interface

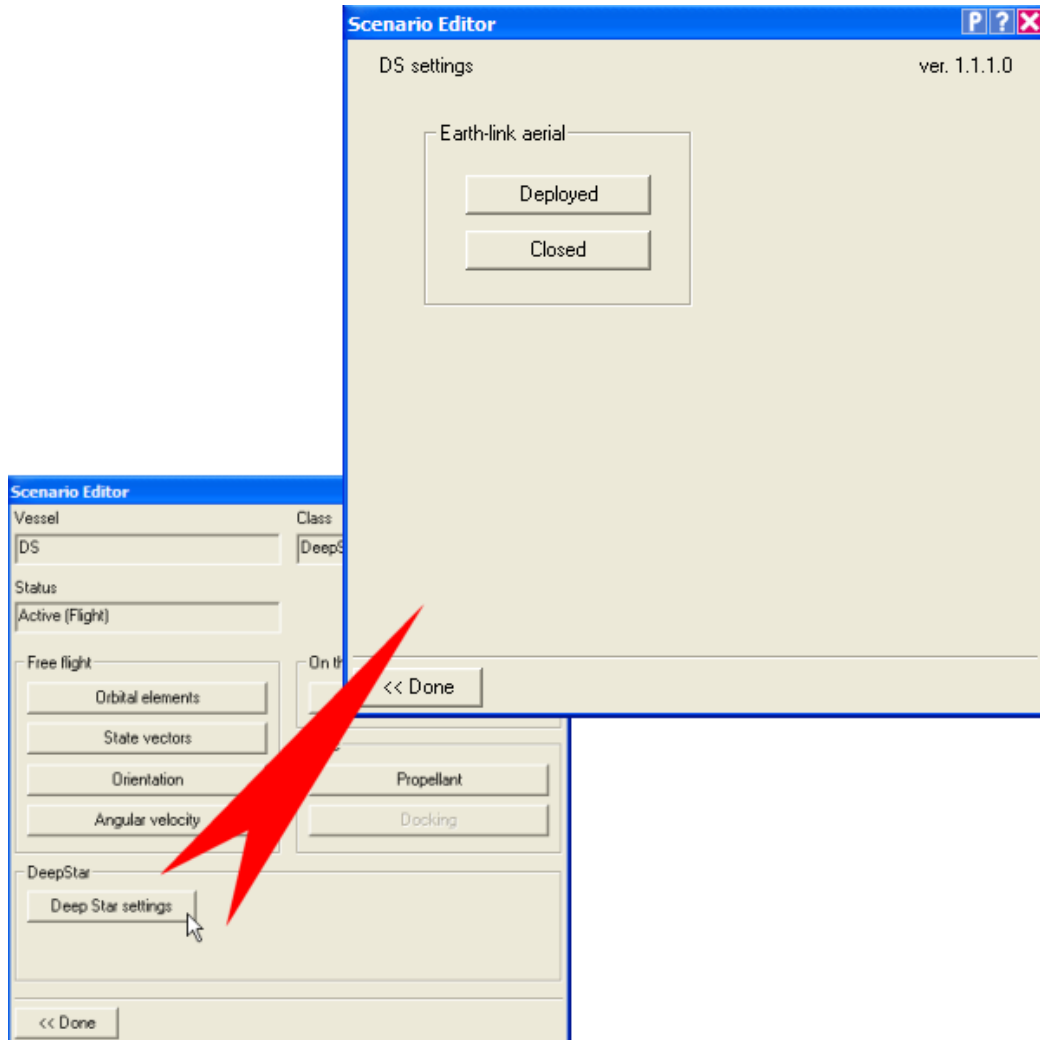
While working with Deep Star probe it is possible to use the following keys in addition to the usual keyboard Orbiter combinations:

E Locate Earth

new ! Configuring

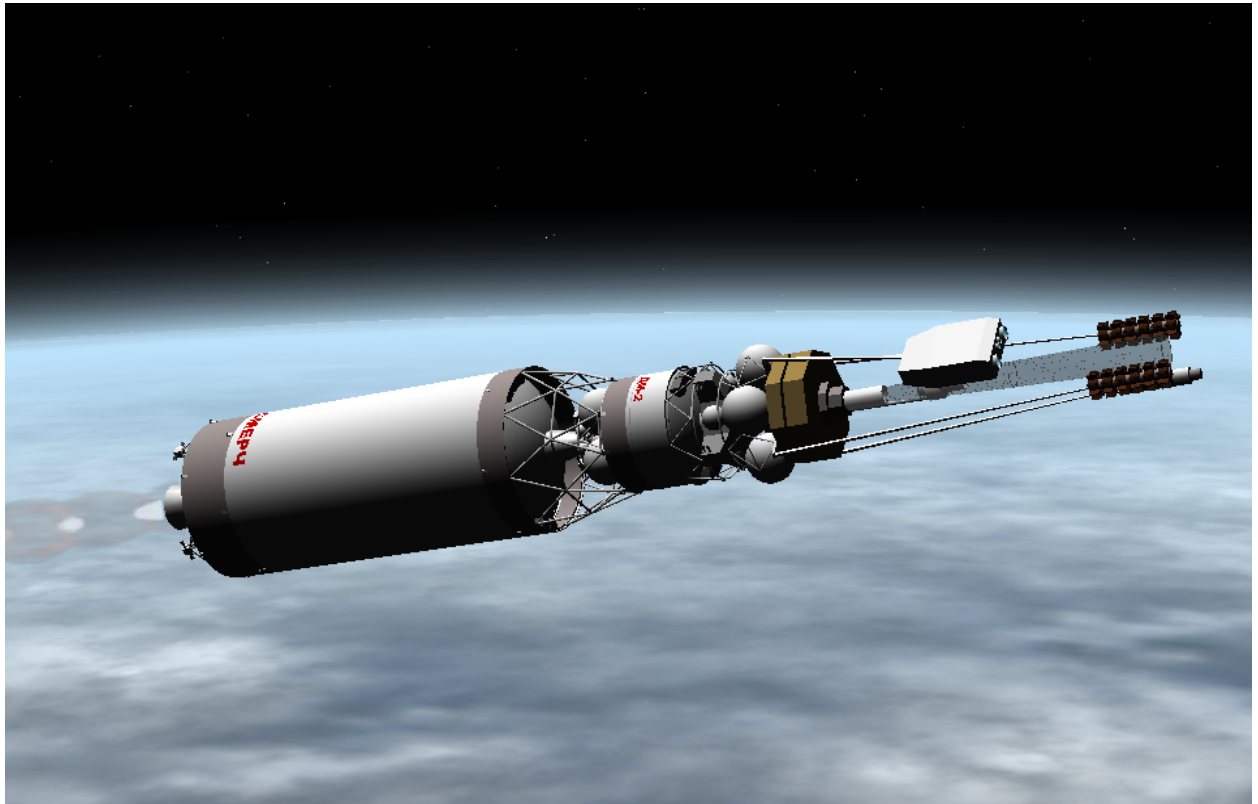
Deep Star spacecraft can be configured with Orbiter's *Scenario Editor* (read more about Scenario Editor in *Doc\ScenarioEditor.pdf* manual).

The Deep Star vessel has a special configuration page in Scenario Editor, see the picture:

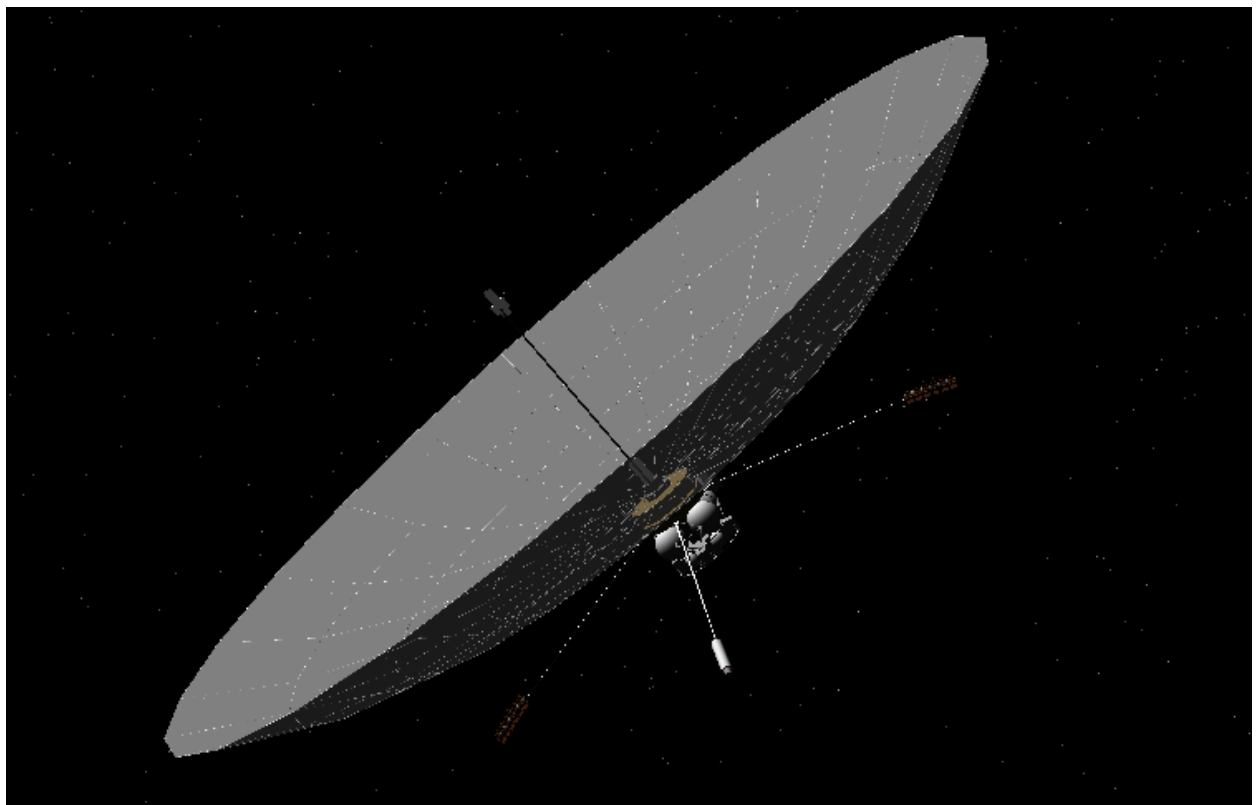


Here you can set the Earth-link aerial state – to deploy click the *Deployed* button, to retract click the *Closed* button.

Screenshots



Beginning of the flight



Deep Star in deep space