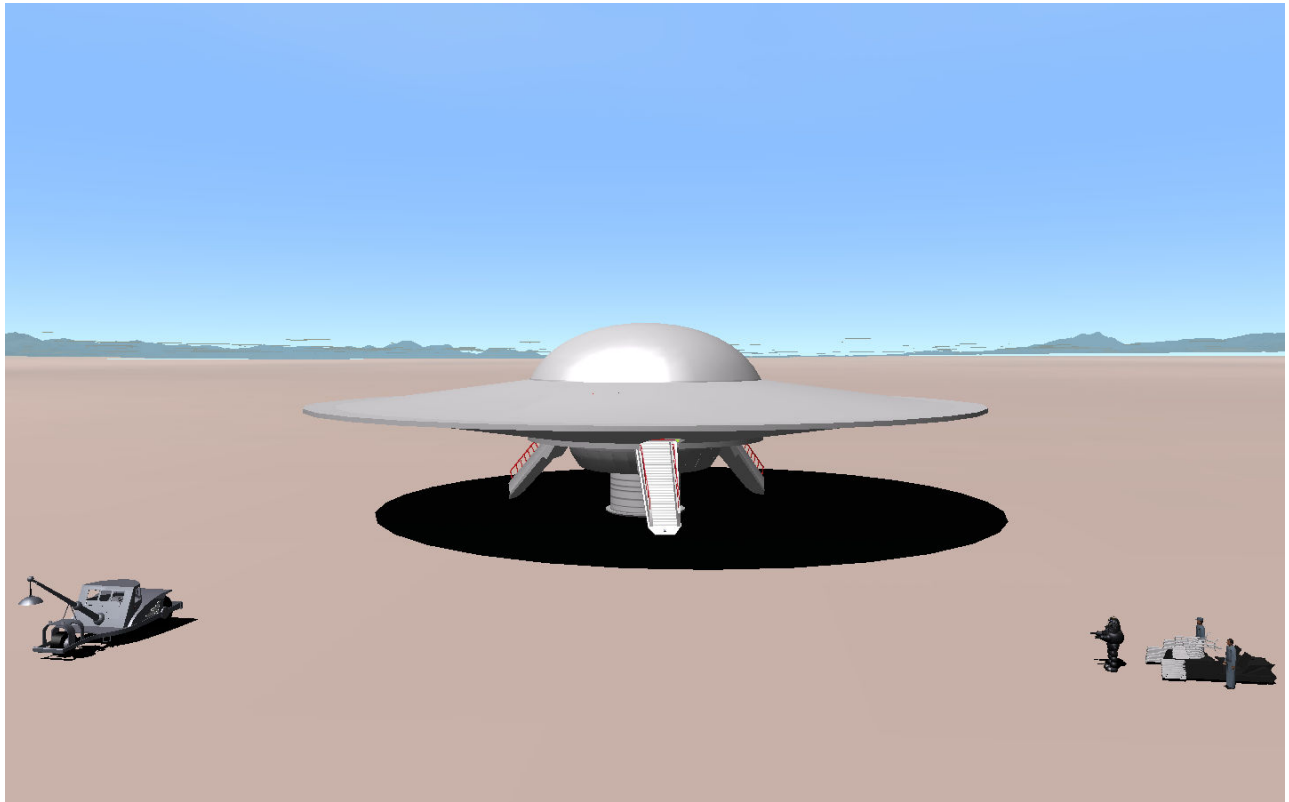# The Vessels of Forbidden Planet

October 6, 2013
Gattispilot
BenSisko

Required Programs

Orbiter 100830 P1
Orbiter Sound 3.5 or later
UMmu 2.0 or later
UCGO

Installation

Unzip The Vessels of Forbidden Planet to the location of your Orbiter 2010 P1 folder. Be sure to preserve the directory structure of the package (for example, in WinZip this re-quires activating the "Use Folder Names" option).

You should start Orbiter and make sure that "Limited Fuel" is selected under the "Parameters" tab. Under the "Extra" tab select "Debugging options" and select "Orbiter shutdown options". Select the "Respawn Orbiter Process" option then "OK". This will ensure that when closing and restarting simulation you will avoid crash to desktop (CTD) problems.

The following programs are optional, but enhance the functionality and visual presentation of the simulation:

CameraMFD v0.12 (http://www.orbithangar.com/searchid.php?ID=2645)
Realistic Background (http://www.orbithangar.com/searchid.php?ID=4799)

Orbiter does not modify the Windows registry or any system resources, so no complicated de-installation process is required. Simply delete the Orbiter folder with all contents and subdirectories. This will uninstall Orbiter completely.
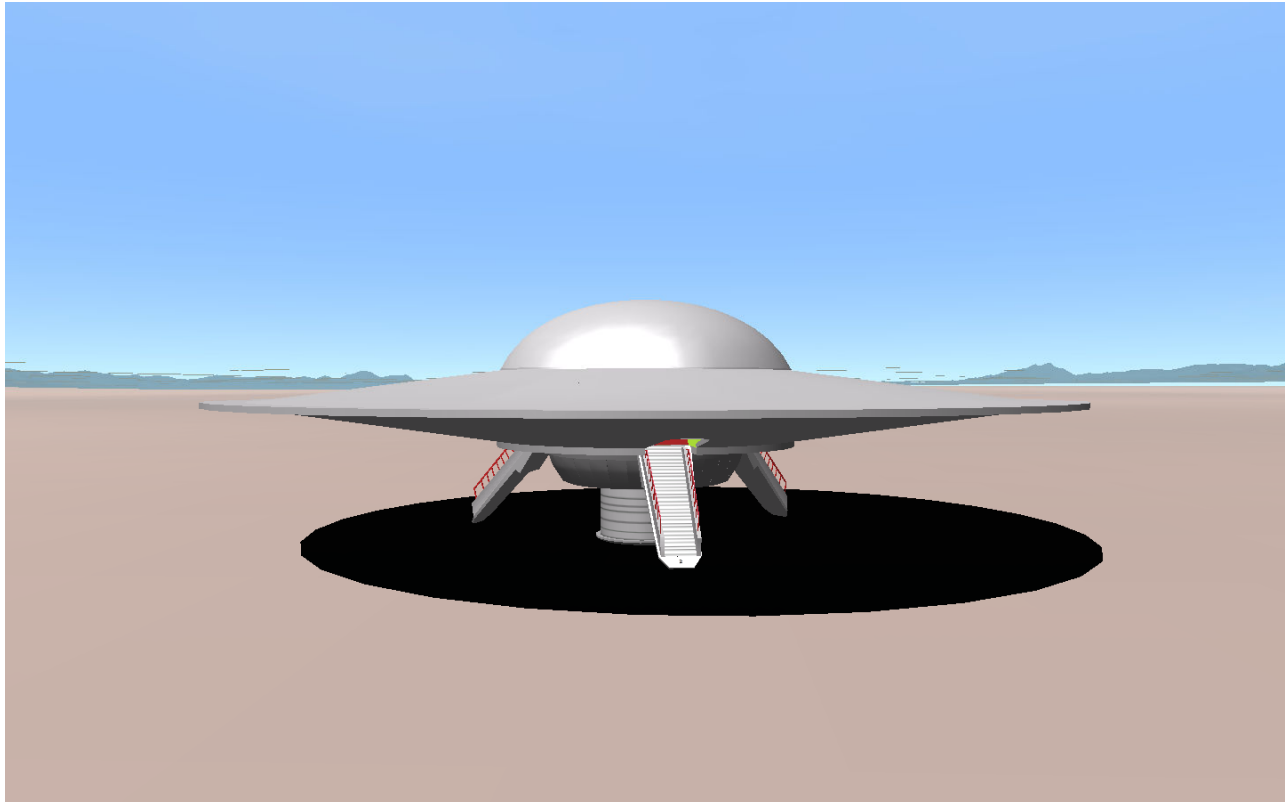
Note

The following standard Orbiter keystrokes do not perform their usual functions:

1. Shift + "S" no longer calls up Surface MFD. "S" now brings up the vessel's crew manifest
2. Shift + "C"/"C" no longer calls up Comm MFD, this key combination a UCGO command
3. Shift + "J" no longer calls up TransX, this key combination is nonfunctional

These MFD's and utilities can be activated via cursor from the on-screen menu (Shift + "F1").
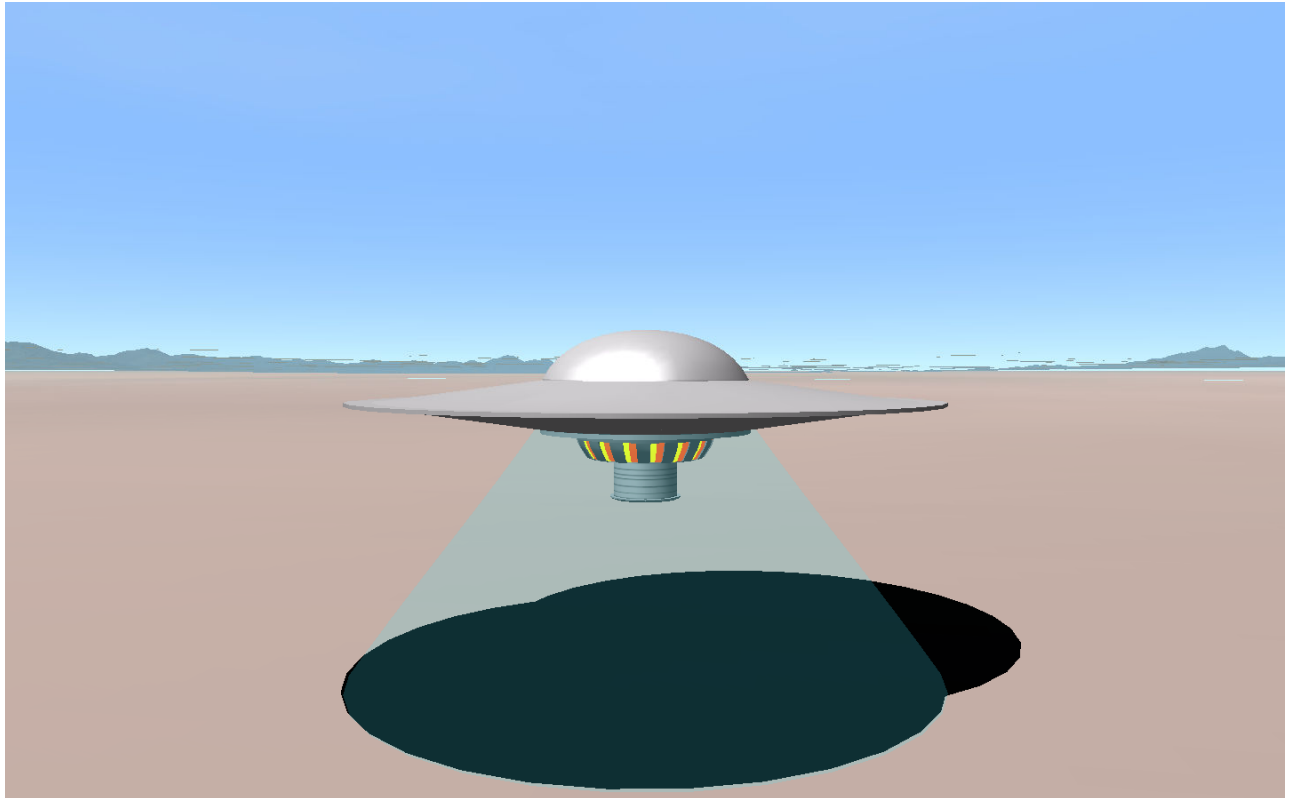
C57D

C57D Key Commands

9 UCGO shift+9 add cargo
0/- Selects which airlock (1,2,3,lower)
1/2 Selects UMmu for EVA
E Selected UMmu leaves vessel
7 Opens/Closes selected air lock/door or opens cargo deck doors of selected
  airlock
V Cycles camera views
W Opens/Closes weapons
4 Fires cannons (Sound only)
6 Activates Landing Beam (visual effect only)
G Toggles gangways
J Lowers/Raises Landing Pedestal
B Creates tractor vessel
N Deletes tractor vessel Note: You will get a CTD if no tractor is present

To launch, employ hover engines, main engines, and Horz Lvl autopilot. Use
Surface MFD, Ascent Profile MFD, and Orbit MFD as needed to achieve orbit.

A force field is automatically activated when the ship leaves a planet's
atmosphere if gangways and landing pedestal are raised.

Once a satisfactory landing site has been selected, null all translational velocity. On approach to landing, extend the Landing Pedestal, activate the Landing Beam and use hover engines to achieve a smooth touchdown. The Landing Beam has a range of approximately 20 meters.
The C57D has a cargo capacity of 4 UCGO containers. Note: The containers are not visible in the ship.

C57D Launch with Landing Beam and Extended Landing Pedestal

Robby Car

Robby Car Key Commands

```
G Opens front gates (Robby is the dedicated driver)
9/0 Selects airlock (front,left,right)
1/2 Selects UMmu for EVA
E Selected UMmu leaves the car
D Opens/Closes airlock
1 Turn Left
3 Turn Right
+ Forward
- Reverse
* Brake
```

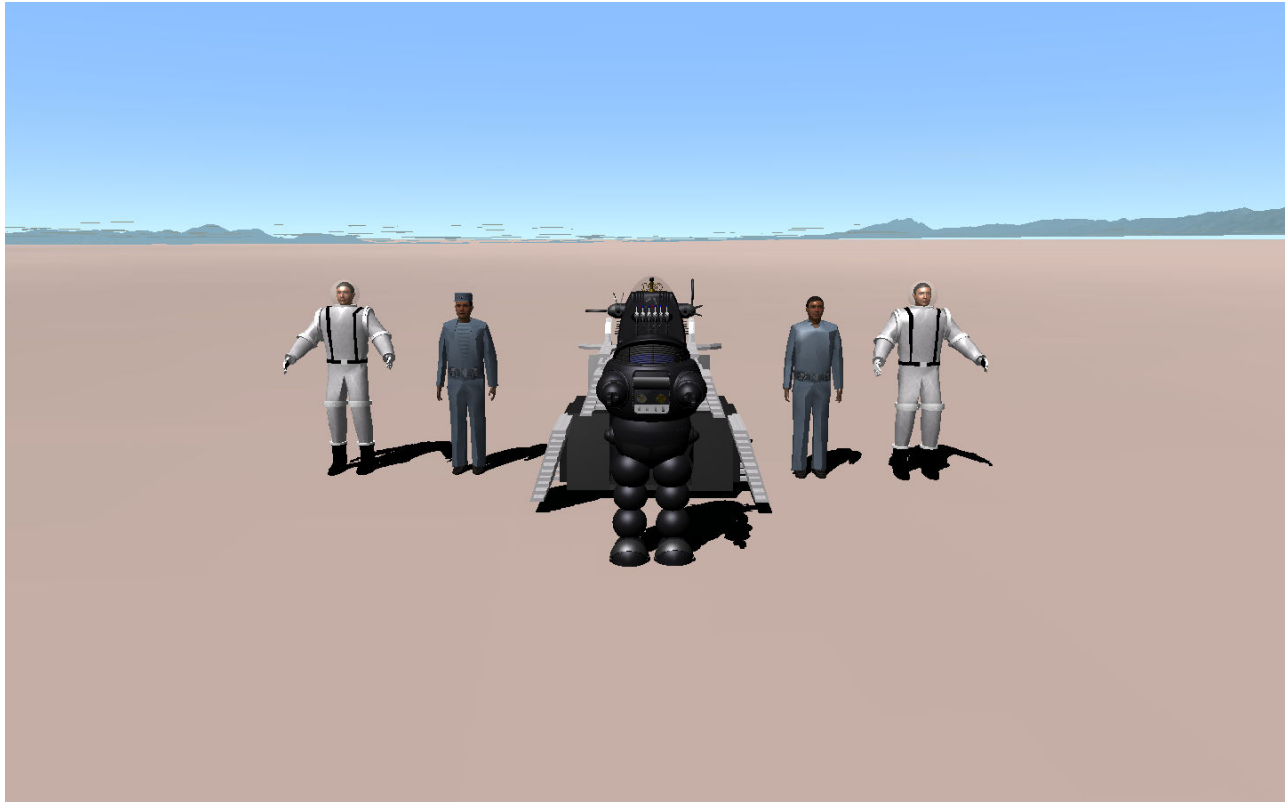Please see UCGO documentation for motion commands.

Tractor

Tractor Key Commands

9/0 Selects airlock (left,right)
1/2 Selects UMmu for EVA
E Selected UMmu leaves the tractor
D Opens/Closes selected airlock/door
B Attach to magnet
N Detach from magnet
4 Lights on
3 Lights off
6 Lowers magnet
5 Raises magnet
V Cycles camera views
1 Turn Left
3 Turn Right
+ Forward
- Reverse
* Brake

Please see UCGO documentation for motion commands.

UMmu Identification

FPR, FPRN, ROBY, FPSN, FPS

There are 5 Forbidden Planet UMmu's, each with a unique id:

- Ribbed shirt and hat UMmu id FPR
- Ribbed shirt and hat no environmental suit UMmu id FPRN
- Robby Robot UMmu id ROBY
- Non-ribbed shirt no hat no environmental UMmu id FPSN
- Non-ribbed shirt no hat UMmu id FPS

FPR/FRS differs from FPRN/FPSN in that when FPRN/FPSN performs an EVA from a vessel no environmental suit will be shown.

Please see UMmu documentation for motion commands.

Acknowledgements

This add-on pays homage to the 1956 Metro-Goldwyn-Mayer movie, Forbidden Planet. With the help of many in the Orbiter community, I was able to bring this project to completion. The C57D exterior was initially modeled for Orbiter by Jon Macure. The ship has been enhanced for Orbiter 100830 P1. I would like to thank Interceptor and Kendo for their help in implementing the Tractor. I extend my thanks to Liber for the Robby the Robot model. Robby the Robot's mesh was initially created by Nick Stevens@ Foundation 3d and is used with permission. To all who contributed I extend my appreciation for their help as well as final thanks to Dr. Martin Schweiger for giving us Orbiter.

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