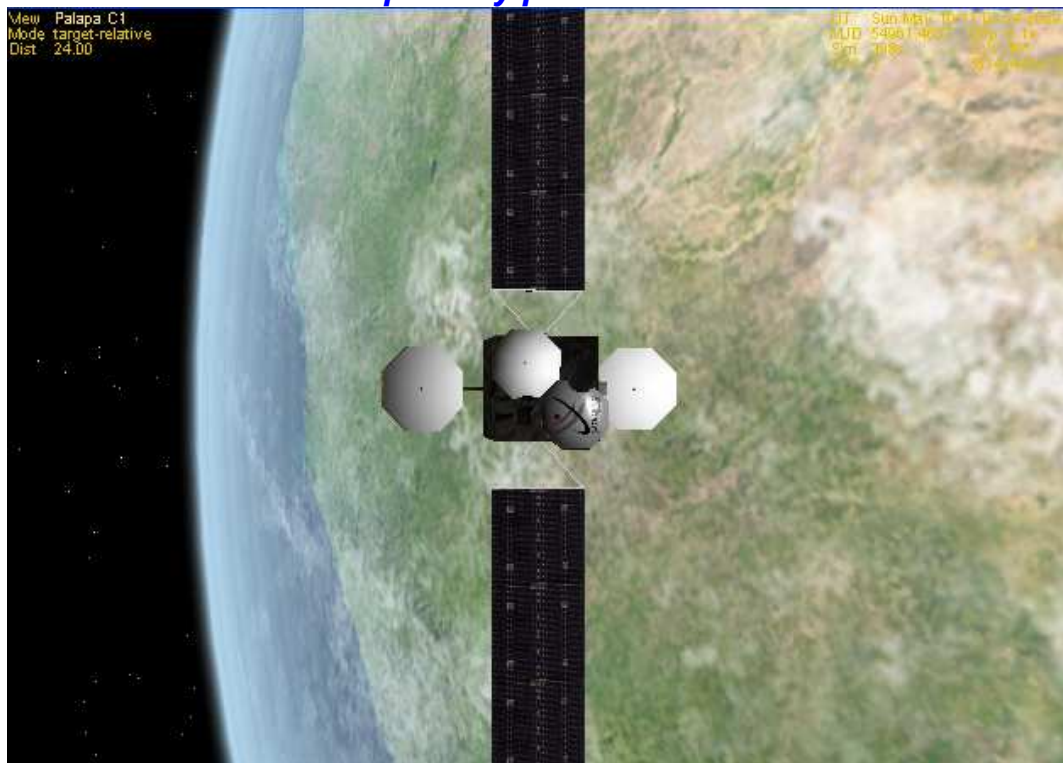*COSTA RICA SPACE SYSTEMS Commercial Payloads division proudly presents...*

PAYLOADS FOR ORBITER PART 3
Commercial Satellites Part 2: The BOENG 601

By Istochnikov

ABOUT THIS ADD-ON

This Add-on represents the most used commercial satellite bus: the Boeing 601

HISTORY

The Boeing 601 was introduced in 1987. It was the first satellite of Boeing stabilized in a 3-axis platform. It features a two-module division: A propulsive module which has the fuel tanks and the engine and the payload module.

It uses a 440N engine for manoeuvring and other 22 N engines for stabilization. Also it can be launched for almost every rocket in the world: from the European Ariane to the Ukrainian Zenith 3SL, with the Space Shuttle in the middle.
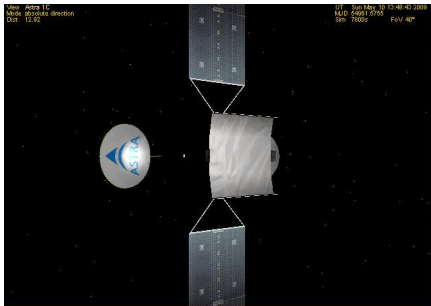
In this moment, there are 88 satellites launched or in construction. The last 601 launched was the Malaysian-flag MEASAT 3. The next: PROTOSTAR 2.

REQUERIMENTS

-Vinka's Spacecraft 3 library available here: http://users.swing.be/vinka/
-Proton LV from Thornton available here:

SATELLITES REPRESENTED:

Some of the satellites represented here are:

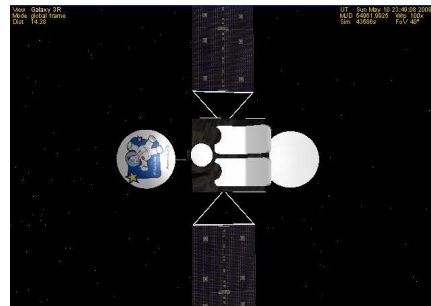## ASTRA 1C:

One of the first contractos of the 601 was SES ASTRA, wich bought 4 satellites of standard version and other 4 of the High Power Version.
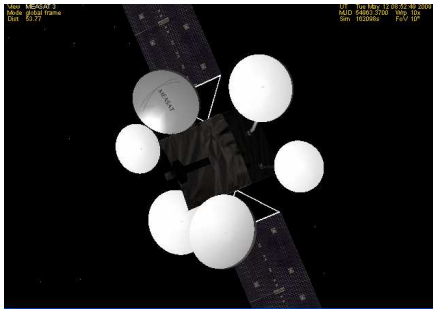
GALAXY 3R:

One of the multitude of satellites bought by PANAMSAT. Later it was sold to Telesat Canada and was baptised Anik E2R

JCSAT 3 and 4:

Japanese Satellite Corp (JSAT) bought first this two, later bought other three (JCSat 5,6 and 8), and, jointly with Intelsat, the Horizons 1
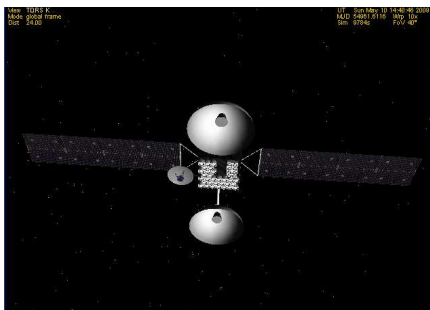
MEASAT 3:

The last BSS 601 launched at this moment. A 4,7 tons Malaysian-flag satellite remarked the always growing necessity of bigger satellites.

PROTOSTAR 2:

Note that it has no-logo 'cos it is the typical 601 High Power bus.

It will be launched in the next two years by a Russian Proton Rocket. Like the MEASAT 3.


TDRS:

The fourth generation of Tracking Data Relay Satellites by NASA is a BOEING 601 Class Satellite.

This add-on also includes the famous rescue mission of the AsiaSAT 3 satellite:

ASIASAT 3

The AsiaSAT 3 satellite was launched the Christmas day of 2007. Its mission was give businnes, telephonic, TV and broadband communications in the Asian south-eastern. When its tug engine failed at its second start, it became a total loss.
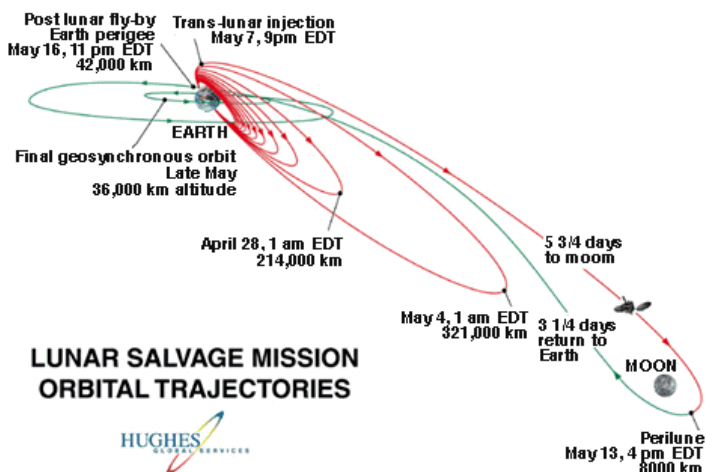
Hughes technicians managed for boosting the satellite towards the moon (like KAGUYA / SELENE, Chang'e 1, and Chandrayaan 1 did it nowadays), and put it successfully almost without inclination on its orbital slot over the Phillipines.

The trajectory was shown in this diagram. Personally my strategy for doing it is do the first burns with a duration of 500 seconds per burn, and on May 7 at

2:00AM GMT, do a huge burn to the moon. In the real world Hughes technicians did two moon fly-bys. I just do one.

KEY MAP

The solar panels and antennas will deploy at pressing L-Shift + Numpad-1 with exception the ASIASAT 3: it will deploy the antennae by pressing G key.

LICENSE DISCLAIMER

-You can distribute this add-on freely. Its sale is forbidden.

-If you redistribute this add-on, distribute it complete. ROCKET ADD-ON DEVELOPERS: if you like my satellites and you want they as payloads of your rockets, please contact me.

-I give this add-on as it is. Don't guilt me for any incident you have as CTDS, data lost, viruses, insomnia, terrible academic performance, firing from job by absences, girlfriend infidelities AND/OR/XOR ruptures (or girlfriend's suicides), dogs dead by starvation, damage of your rooms by irruptions by the police due you don't exit your room, the re-election of George Bush, a naked Bin Laden apparition in your room (yuck!!!!!), other things that appear here: etc, etc, etc...

THANKS TO…
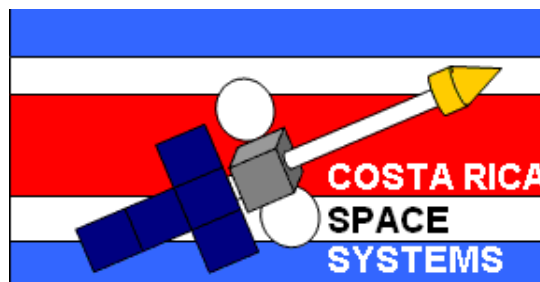
-Dr Martin Scheiger for doing the best space flight simulator ever seen…
-My brother Luis Fernando and my best friend Rolando for the support and their evaluations.

TECHNICAL SUPPORT

Questions, Comments, Bug reports, etc, etc, etc, send them to istochnikov@gmail.com (put in the subject "Payloads for Orbiter" insults will be ignored)
Telephonic support on +506-8321-9889. ONLY IN SPANISH :-P