



vol 151

K o u r o u 2 0 0 2

SPOT-6

IDEFIX



SPOT 5 Earth observing satellite by Mustard

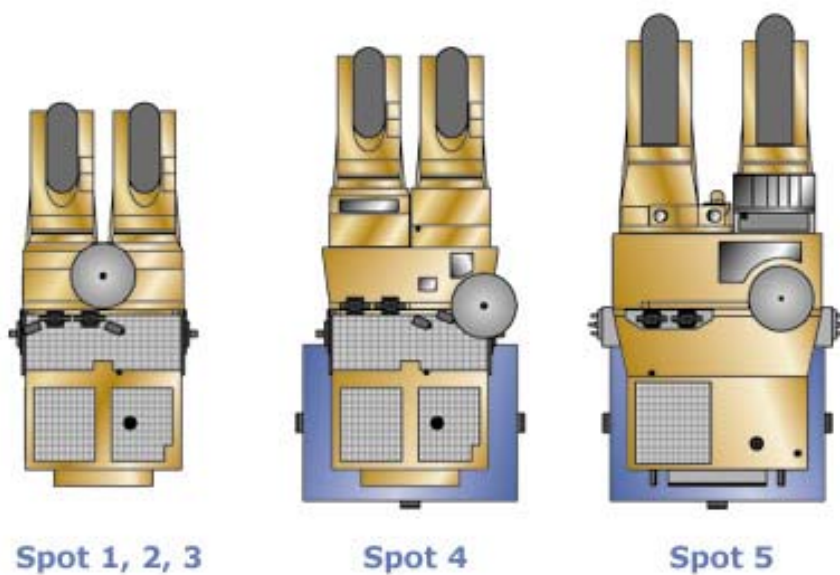


I - Presentation

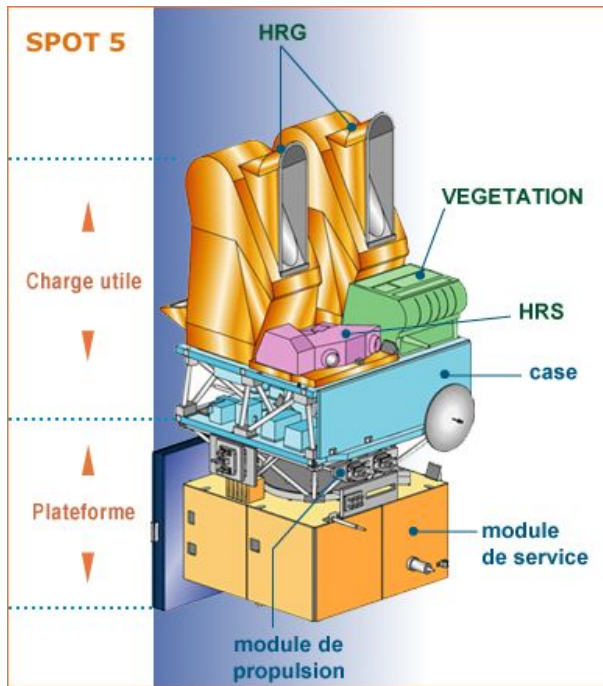


Spot 5 is a french satellite for earth observing, launch the 3rd may 2002 by the european launcher Ariane 42P (+2 powder boosters), V151 (Vol 151-Flight 151) at Kourou on the pad ELA2.

Spot 5 is the fifth sat of the series Spot built for Earth observing. It used for agriculture, urban planning, forest and disaster management, geology exploration, water ressources management, oceanography, and military surveillance.



II - Payload



III – Orbit information

Launch Date	May 3, 2002
Launch Vehicle	Ariane 42P
Launch Location	Guiana Space Centre, Kourou, French Guyana
Orbit Altitude	822 Km
Orbit Inclination	98.7°, sun-synchronous
Speed	7.4 Km/second – 26,640 Km/hour
Equator Crossing Time	10:30 a.m. (descending node)
Orbit Time	101.4 minutes
Revisit Time	2-3 days depending on Latitude
Swath Width	60 Km x 60 Km to 80 Km at nadir
Metric Accuracy	<50-m horizontal position accuracy (CE90%)
Digitization	8 Bits
Resolution	Pan: 2.5m from 2 x 5m scenes Pan: 5m (nadir) MS: 10m (nadir) SWI: 20m (nadir)
Image Bands	Pan: 480 - 710 nm Green: 500 - 590 nm Red: 610 - 680 nm Near IR: 780 – 890 nm ShortWave IR: 1,580 – 1,750 nm

IV – Spot 5 in Orbiter

- Unzip the file spot5.zip in your Orbiter directory
- Launch one scenario with Spot-5
- For the launch you can active the key “P” for autolaunch and autoguidance.
- After the orbit insertion you must deploy the solar panels by the key G.

Require:

- Ariane4 (by Well/No Materr)
- Kourou-CSG-v3 (Papyref/Mustard).
- Module Spacecraft v3 by Vinka.

Thanks

- Vinka for his great mmodule spacecraft
- Well and No Matter for Ariane 4
- Martin Schweiger for Orbiter space flight simulator

Links

<http://spot5.cnes.fr/gb/index2.htm>
<http://www.mira.fr/spot5/3D>
<http://orbiter.dansteph.com/>
<http://orbiter.mustard-fr.com>
<http://www.orbitersim.com>

This addon is a freeware. Commercial use is forbidden.

Mustard's website: <http://orbiter.mustard-fr.com>
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