

Actieve satellieten: nu en in de toekomst

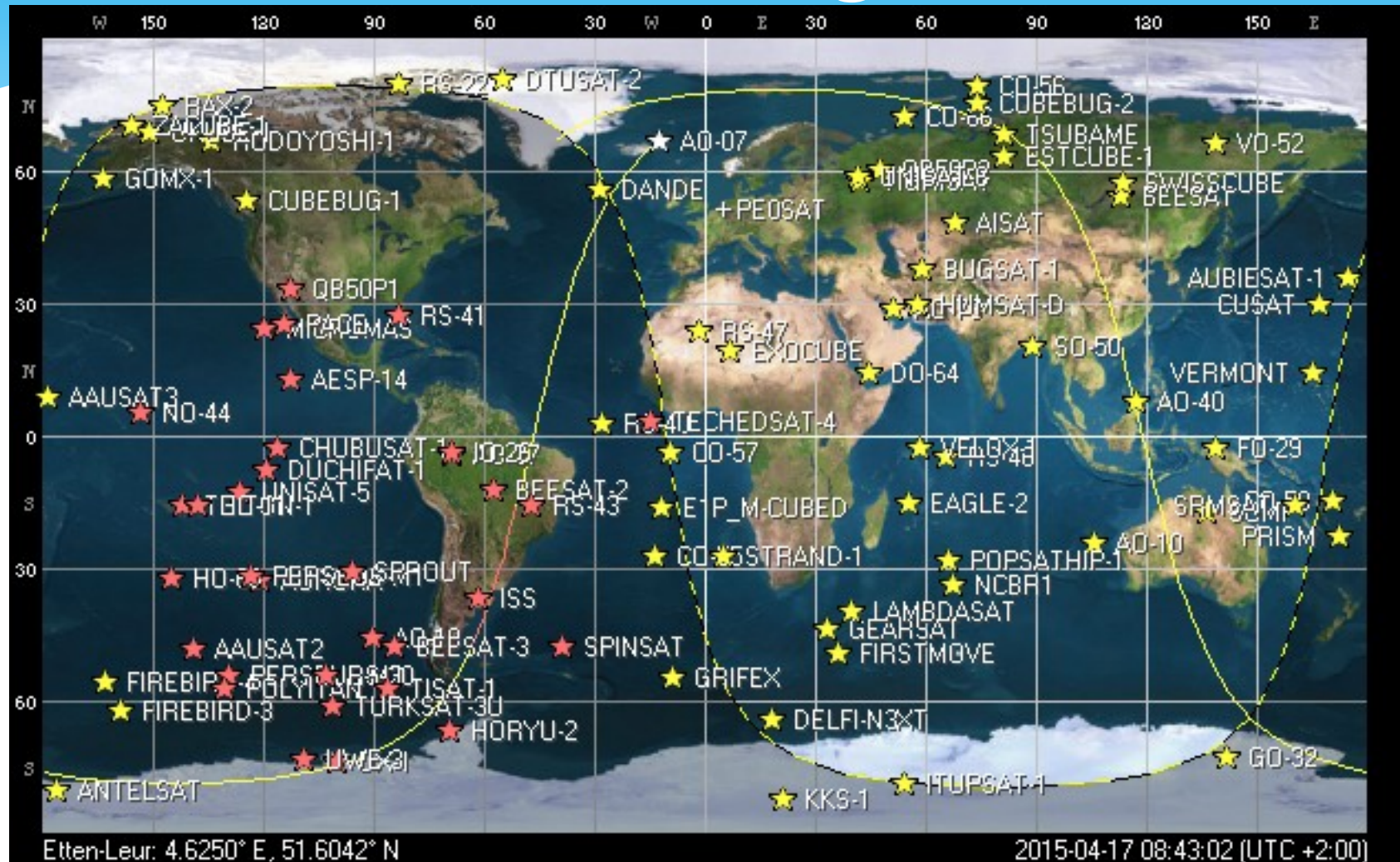
Interessedag Amateursatellieten 2015

Jan van Gils – PEØSAT

Agenda

- * Inleiding
- * Huidige satellieten
- * Toekomstige satellieten
- * Informatie
- * Vragen

Inleiding



Huidige satellieten

- * Amateursatellieten

- * AO-7, AO-73, FO-29, HO-68, ISS, SO-50

- * Cube- Nano- Picosats

- * DO-64, EAGLE-2 (50\$SAT), GRIFEX, QB50px, STRaND-1, UWE-3, enz.

- * Wetenschappelijk

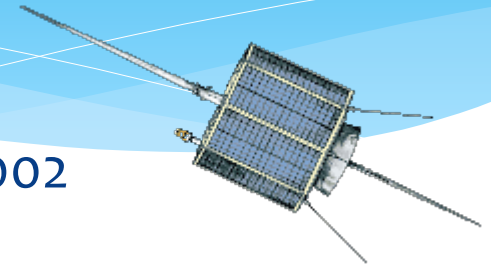
- * UniSAT-6



Amsat-Oscar 7

AO-7

Gelanceerd in November 1974, in 1981 defect en in 2002 weer actief.



Mode A

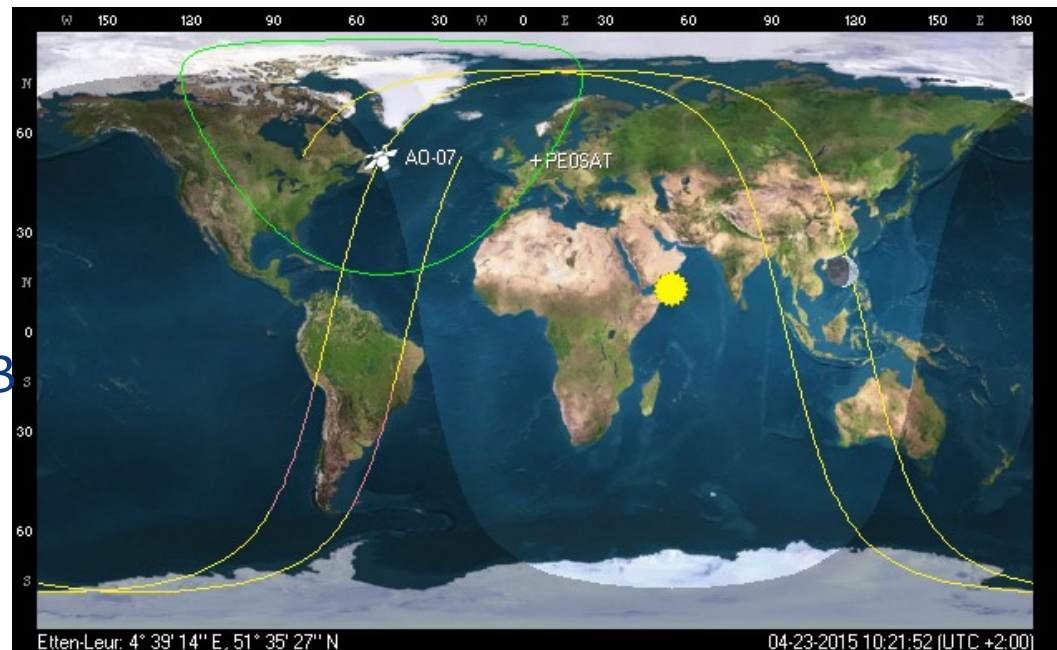
downlink 29.400 – 29.500 USB

uplink 145.850 – 145.950 USB

Mode B (U/V)

downlink 145.925 – 145.975 USB

uplink 432.125 – 432.175 LSB



Amsat Oscar 73

AO-73 – FUNcube-1

Gelanceerd in November 2013

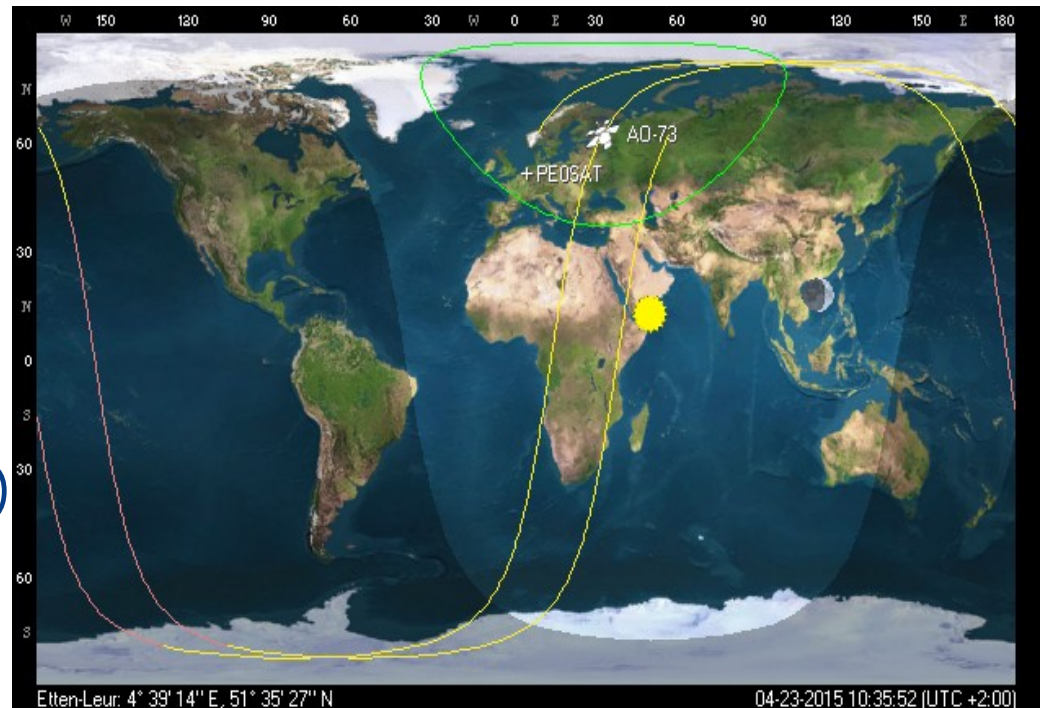


Transponder en 1200 baud BPSK
baken.

Downlink 145.950 – 145.970 USB

Uplink 435.150 – 435.130 LSB

Baken 145.935 USB (Warehouse)



Fuji Oscar 29



FO-29 (JAS-2)

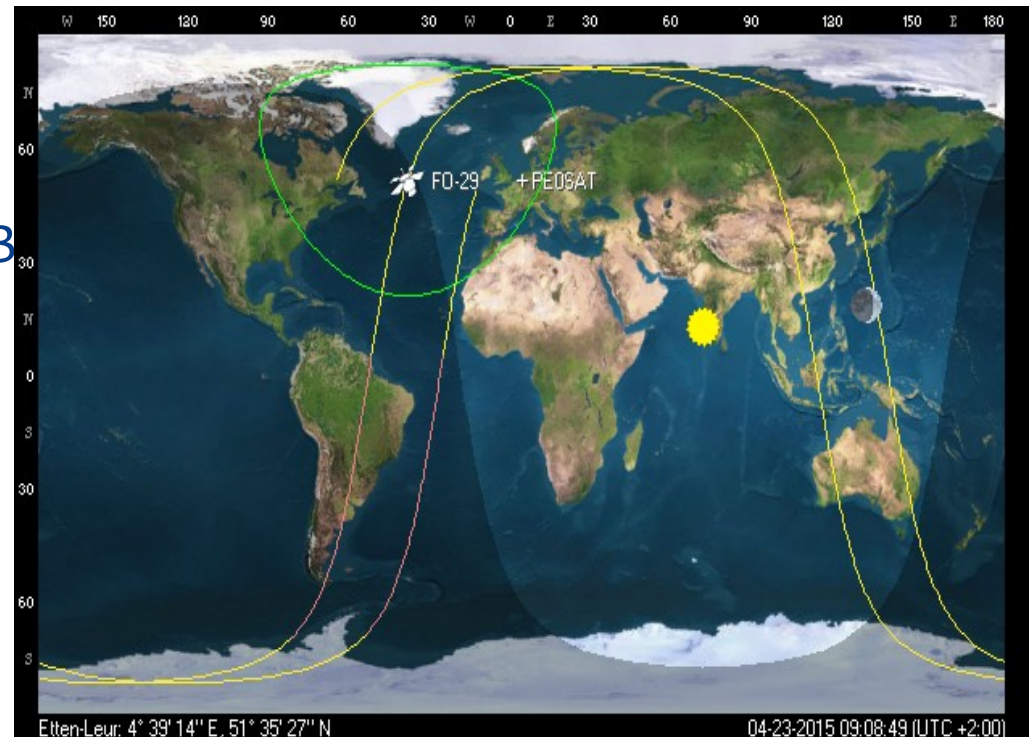
Gelanceerd in augustus 1996

Transponder en baken.

Uplink 145.900 – 146.000 LSB

Downlink 435.800 – 435.900 USB

Baken 435.795 CW



International Space Station

ISS

Gelanceerd in november 1998



APRS, Spraak, SSTV, ARISS

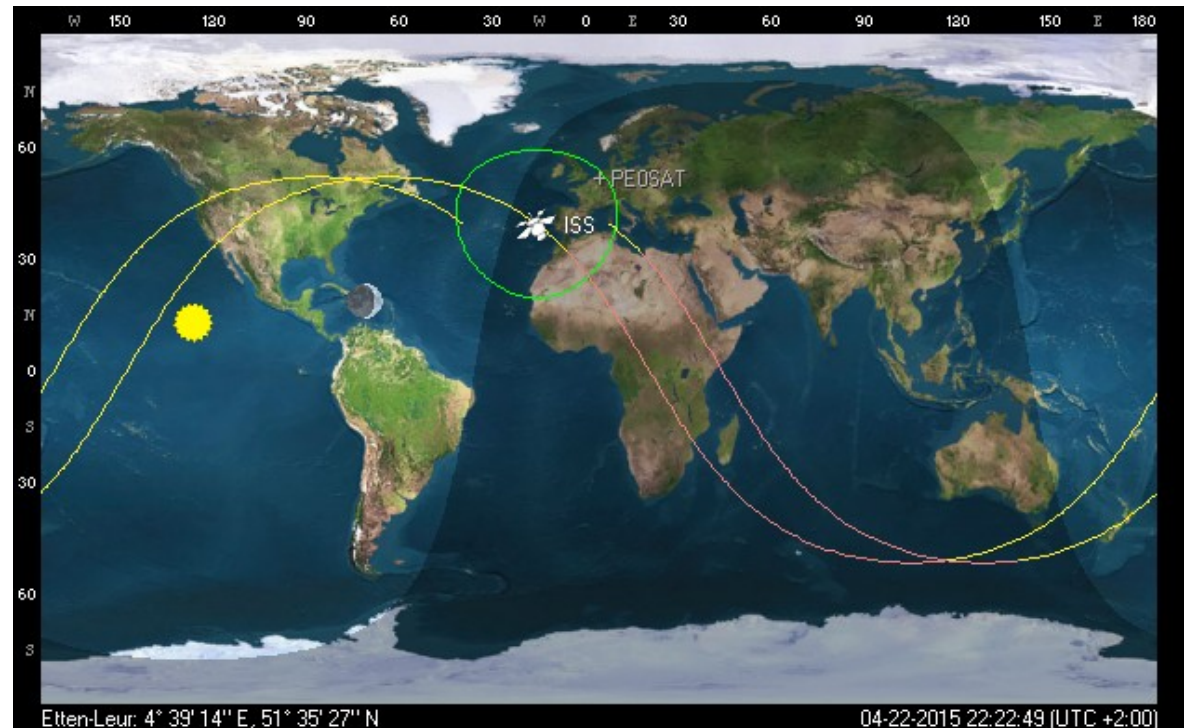
Uplink 145.200 FM

Downlink 145.800 FM

APRS 145.825

SSTV 145.800

Lanceer platform.



Saudisat 1C



SO-50

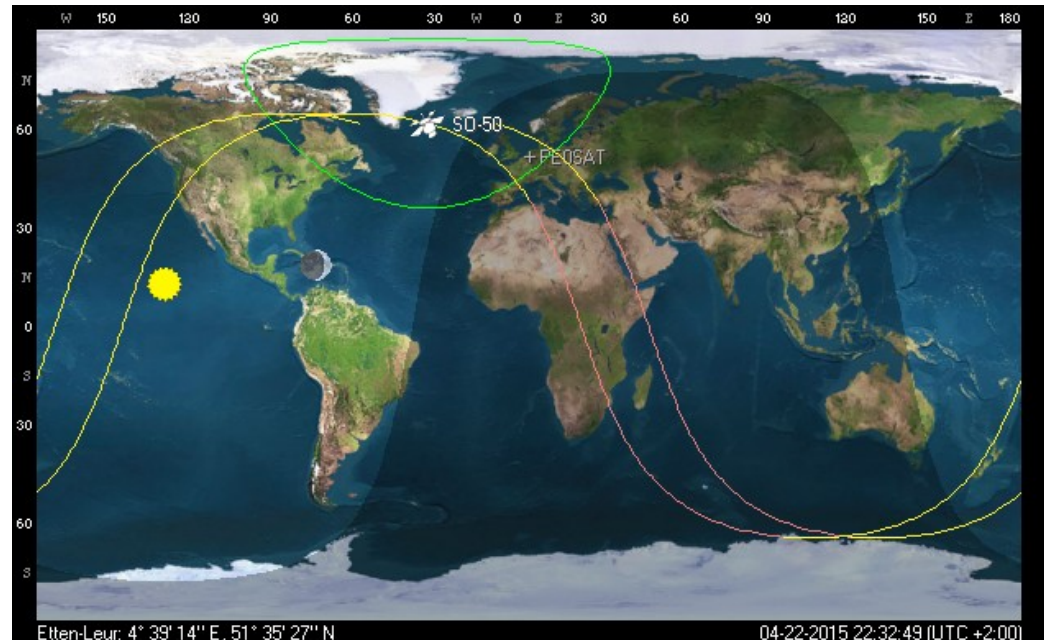
Gelanceerd in december 2002

FM relais

Uplink 145.850 FM

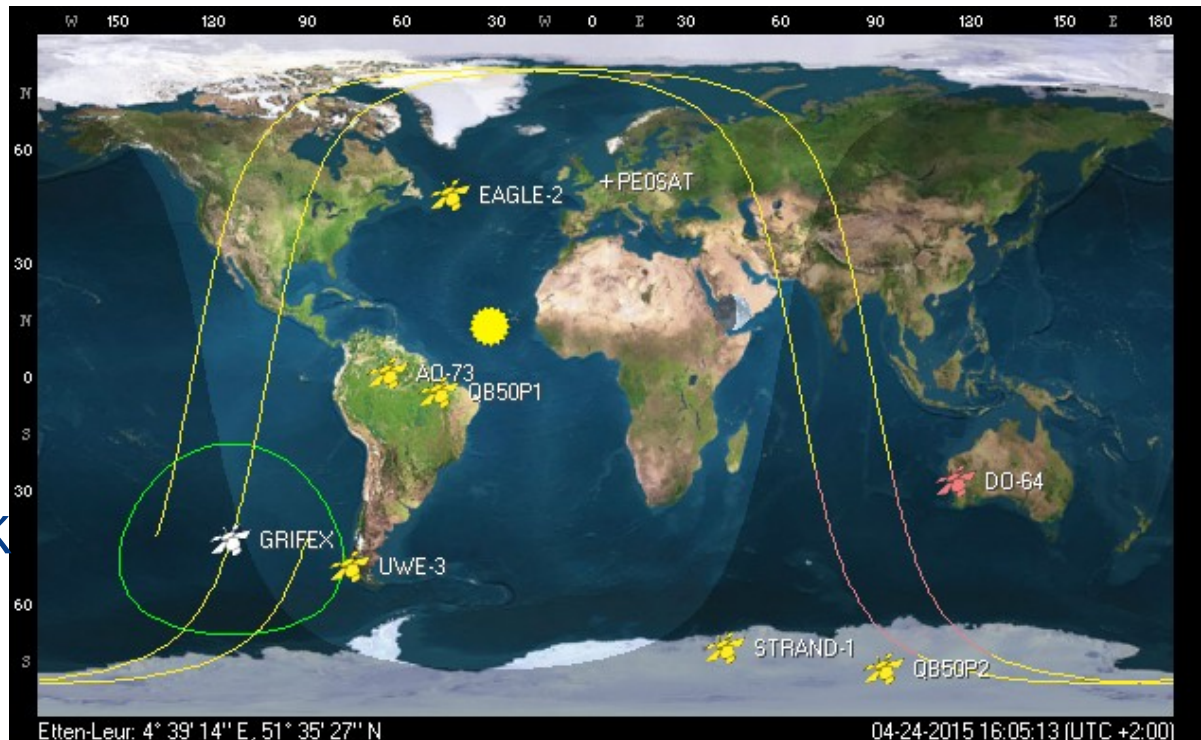
Downlink 436.795 FM

CTCSS 67.0 (Arm timer 74.4 2s)

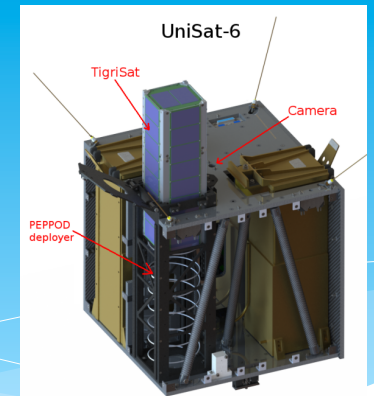


Cube- Nano- Picosats

- * DO-64, 145.870 USB BPSK
- * EAGLE-2 (50\$SAT)
- * GRIFEX, 437.480 FM FSK
- * QB50px, 145.815 145.880 USB BPSK
- * STRaND-1, 437.568 FM FSK
- * UWE-3, 437.385 FM FSK
- * Enz.



UniSAT-6



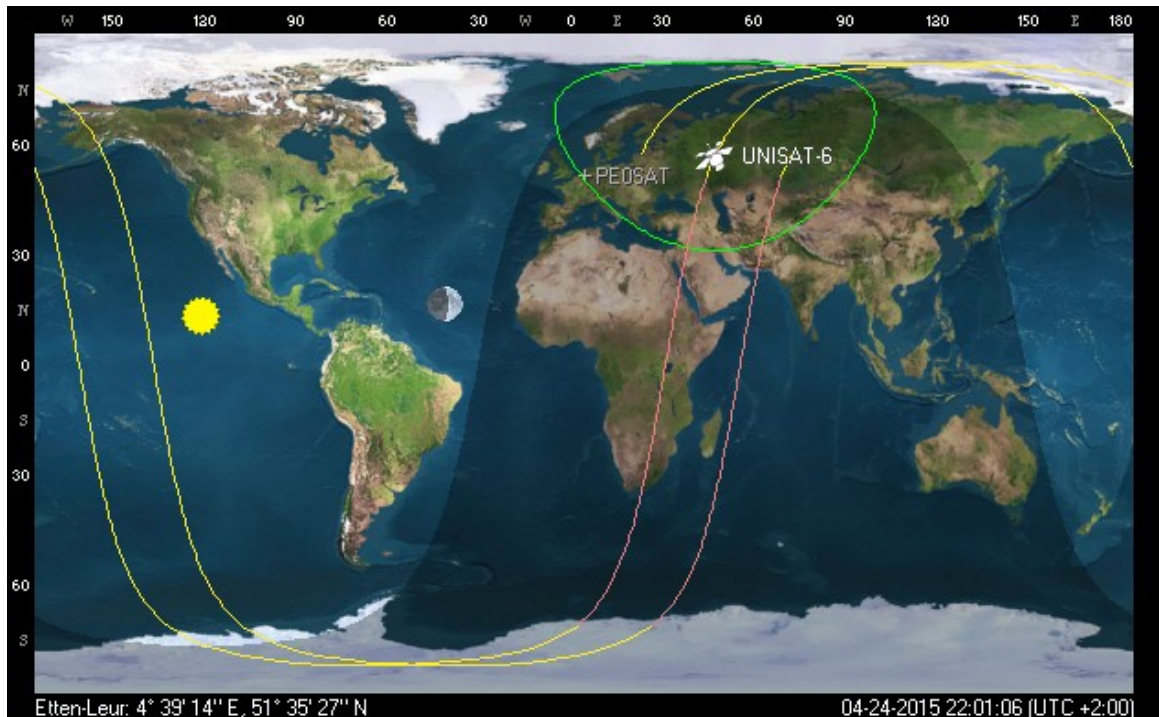
UniSAT-6

Gelanceerd in Juni 2014

Baken 437.425 9600 baud

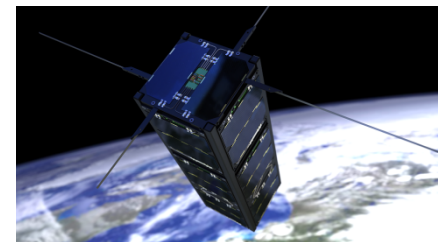
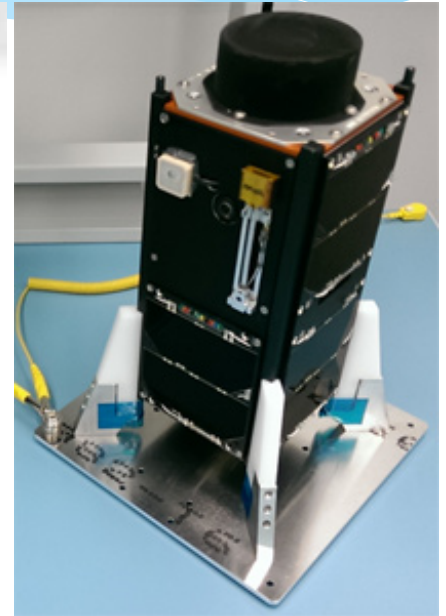
TigriSAT

Baken 435.000 9600 baud



Toekomstige satellieten

- * QB50p1 (FUNcube-3)
- * QB50p2
- * Triton-1
- * Ukube-1 (FUNcube-2)
- * CAS-2 (Camsat)
- * KiwiSAT (Amsat NZ)
- * Es'hail-2
- * FOX series



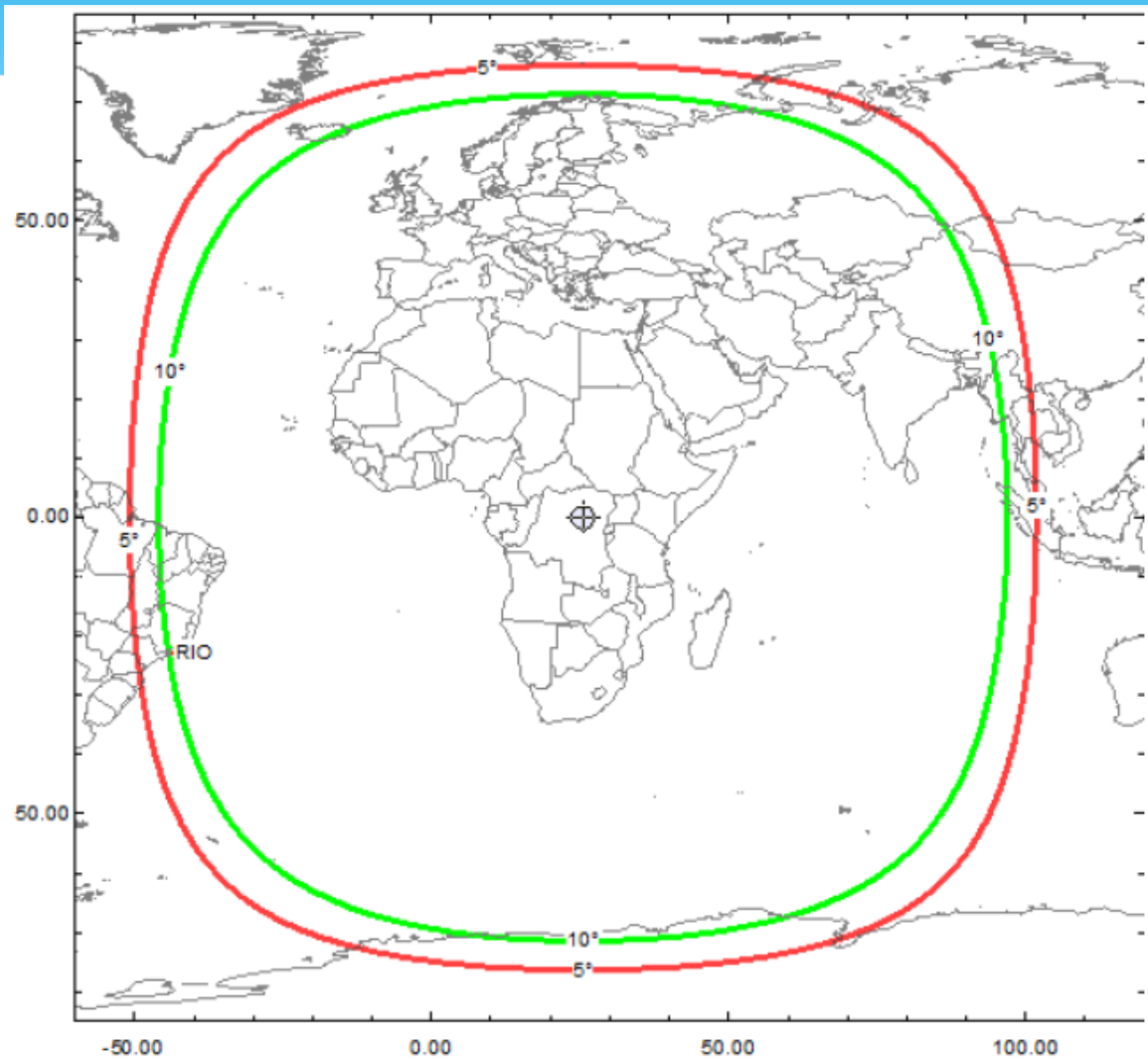
Es'hail-2

Eerste (Phase-4) geostationaire satelliet met een Amsat lading.

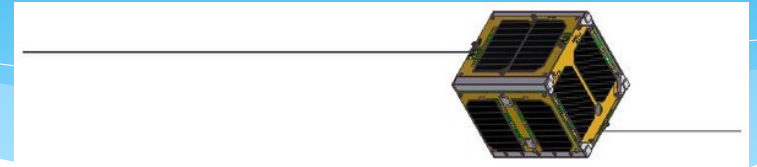
Een samenwerking met Amsat-DL, twee transponders.

Transponder		Freq. Band	Polarization	Central Freq. (MHz)	Transponder Bandwidth
NB	Uplink	S-band	RHCP	2400.175	250 KHz
	Downlink	X-band	LVP	10489.675	
WB	Uplink	S-band	RHCP	2405.5	8 MHz
	Downlink	X-band	LHP	10495	

Es'hail-2



FOX

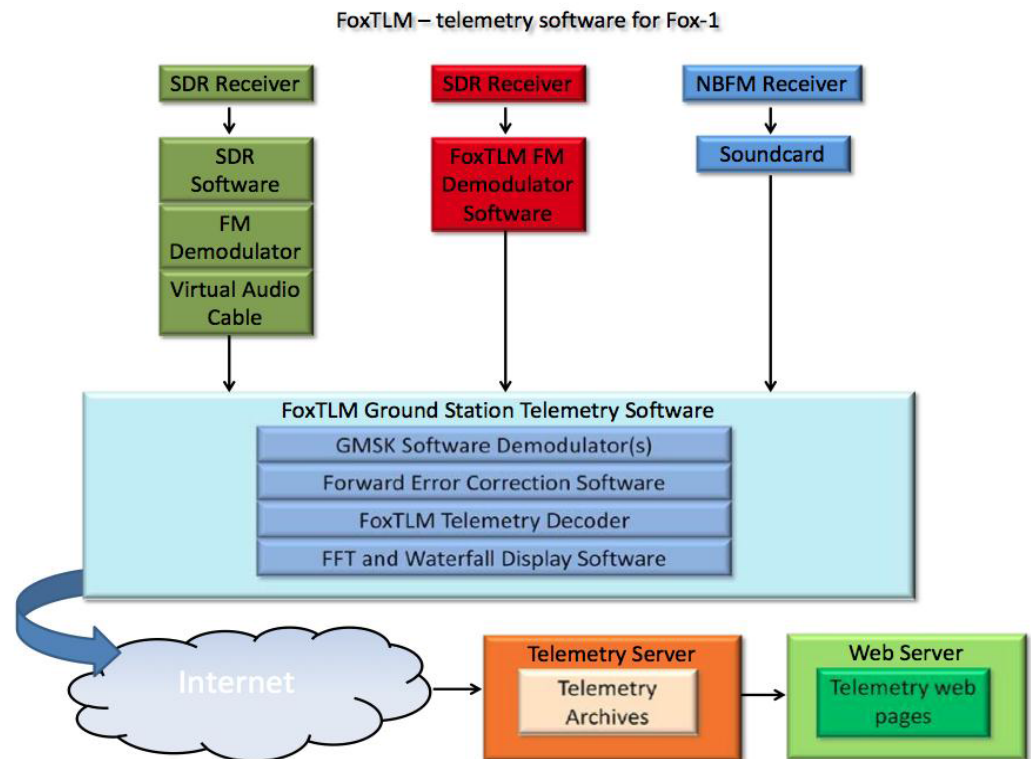


FOX-1 series

Samenwerking met
universiteiten

FM relais (70cm uplink en 2m
downlink) Eerste lancering in
zomer 2015

FOX A,B,C,D en E volgende
lanceringen, 23cm uplink,
transponders.



Informatie

- * AMSAT-DL (www.amsat-dl.org)
- * AMSAT-NA (www.amsat.org, Facebook) *
- * AMSAT-NL (www.amsat-nl.org)
- * AMSAT-UK (www.amsat-uk.org, Facebook, Twitter) *
- * eoPortal (directory.eoportal.org/web/eoportal/satellite-missions) *
- * JE9PEL (www.ne.jp/asahi/hamradio/je9pel/) *
- * Nederlandstalig Satellietnet (PAØDLO, opname PE1KEH) *
- * PEØSAT (www.peosat.vgnet.nl, Facebook, Twitter) *
- * Satblog – DK3WN (www.dk3wn.info/p/, Twitter) *

* = regelmatig nieuwe informatie

Vragen