FIVE RUSSIAN SATELLITES DEPLOYED FROM THE ISS

On August 15 these satellites were deployed from the International Space Station during an EVA. Sergei Prokopiev and Oleg Artemiev, released these Russian birds:

- **SiriusSat-1 (SXC1-181) RS13S beacon** 435.570 MHz
- **SiriusSat-2 (SXC1-182) RS14S beacon** 435.670 MHz
- **Tanyusha SWSU #3 RS-8 beacon** 437.050 MHz 9k6 FSK or FM voice
- **Tanyusha SWSU #4 RS-9 beacon** 437.050 MHz 9k6 FSK or FM voice
- **TNS-0 #3 (Technologicesky Nanosputnik)**

DIWATA-2 FM

We expect that by the month of October, the Japan Aerospace Exploration Agency (JAXA) put in orbit the Philippine satellite Diwata-2 FM which will carry a FM transponder and a digipeater for APRS. IARU has coordinated these frequencies for this satellite:

- 437.500 MHz for the uplink
- 145.900 MHz for the downlink

ES’HAIL-2 LAUNCH ANNOUNCEMENT

Es’hailSat has announced in Twitter that the Es’hail-2 satellite will be launched sometime in the 4th quarter of 2018. This satellite will be the first geostationary providing service to Ham radio stations with a huge coverage, from Thailand to Brazil. It will be equipped with 2 transponders in the 2.4 Ghz and 10 Ghz bands. A linear transponder for analog communications with a 250 khz bandwidth and another one to carry digital experiments both in voice and DVB with a 8 mhz bandwidth.
Proximas Coming activities

**AM1SAT**, Will be operating between September 10-17 from several locators in Spain...and on September 15-16 from Ávila during the IberRadio Ham radio fair.

Activities Done

**CT7/EA4SG**, David, was active from IM57 and IM56 (the grid with less ground in the peninsula).

**EB1AO**, was active from In53.

**F/ON4AUC**, Henk was active from Jn04.

**UR5FA/MM**, was active from several maritime grids.

**PT2AP**, Alex was active from Hh07.

**TF/G0MFR**, was active from several grids in Island.

**KM4LAO**, active from EM93 SC.

**KE9AJ**, Joe was active from EM19, 39 and 49.

**K0FFY**, Adam gran active from FN44, FN53 and Fn55.

**KE4AL**, Robert was active from EM52, 54, 55, 63, 64 and 65.

**N4QX**, was active from Switzerland as HB9.

**JW/OH8FKS/P**, Rafaello from rare DXCC on Sats and grid FQ78.
AM1SAT ACTIVATION

The especial call AM1SAT will be active September 10-14 from several grids in Spain celebrating the IV edition of the Spanish ham radio fair Iberradio.

On September 15-16 they will be active from Centro de Exposiciones y Congresos: Lienzo Norte, where they will set up a satellite station showing visitors how to make a satellite contact etc…

Any ham is invited to take part in the experience or just drop by to get information, solve doubts or just get to know each other. They will confirm contacts through Lotw and Eqsl.

We’ll wait for you
AM1SAT AWARD

AMSAT-EA will be transmitting its special call AM1SAT via all active satellites from September 10th to September 17th as part of the IV RadioHam Fair IberRadio 2018 activities. IberRadio is the biggest event for the ham community in SouthWest Europe and will open doors September 14th and 15th. Learn more about IberRadio at http://www.iberradio.es. AM1SAT callsign will be active from a minimum of 14 different grids during that time to help satellite operators to collect as much EA locators as possible.

As part of this activity and in order to promote the participation, AMSAT-EA is sponsoring the AM1SAT Special Award in two categories: SILVER and GOLD.

AWARD RULES

1.- This award can be requested and issued to any licensed amateur station and also SWLs.

2.- Will be valid contacts all those done via AMSAT satellites from September 10th 2018 to September 17th 2018 in all transmission modes.

3.- There are two different requirements to get the awards, depending of the applicant location.

Applicant in a EU entity.

To get the award in its SILVER category, the applicant has to contact AM1SAT in 5 different grids (We consider “grid” as a 4-digits main locator. For example IN71, IM68, JN00, etc). To get the award in its GOLD category the applicant has to contact AM1SAT in 10 different grids.

Applicant in a NON EU entity.

To get the award in its SILVER category, the applicant has to contact AM1SAT in 2 different grids (We consider “grid” as a 4-digits main locator. For example IN71, IM68, JN00, etc). To get the award in its GOLD category the applicant has to contact AM1SAT in 4 different grids.

4.- There is no need of paper QSLs nor EQSLs to ask for the award. When the applicant gets the requirements, he has to send via email a log with the QSOs, listing his callsign, name, and QSO data (Date, GMT time, frequencies, mode, received grid and used satellite). Also we need the applicant email to send the award. The awards will be send, latest in 2 months and only in PDF format, free of charge.

5.- Logs and any question about this activity must be send to eb1ao@amsat-ea.org.

6.- Logs must be received by October 1st 2018. We will consider the AM1SAT operators logs as the valid ones to check and cross the QSOs. Disputes or open issues will be solved by AMSAT-EA committee.
Hello friends of AMSAT-EA, I’m delighted to write a short article about my operation Saturday during the holidays on the island of Lanzarote, EA8.

**Why Sat?**

Ok, that is simple to explain. Last vacation was 2016 in EA6, Mallorca Island, and it was the very first time for me to take radio equipment abroad. Used a Kenwood TS-50 (sold in the meantime and replaced), my Buddipole and an LDG tuner. Operated on 20m, mostly in CW, with good success: JA, PJ, PY LU, W, EUs and not to forget EA8, hi.

Problem using HF is not the amount of equipment, but the addictive factor. Once started operation, I couldn't stop it-result: My wife grumbling with a smile at me to stand up and go to beach or pool.

We decided to spend our next vacation on Lanzarote from July, 17th to 31st, 2018, one reason for that was the interesting geological history and landscape with volcanos, the mild climate compared to the hot and humid summer on continental Europe, and the fact of having feet on Africa. One thing was for sure: NOT without radio!

So I decided to try something new, inspired also from members of International AMSAT-Op’s WhatsApp group: Ultra-light portable Sat operation, all handheld, FM mode only. Advantage: Operating radio could be calculated, so the addictive factor was eliminated and excitement was guaranteed!

My rig consisted of following units:

- **TRX:** Kenwood TH-D72 (in my opinion the best HT for full duplex operation using one radio)
- **Antenna:** Arrow II with built-in duplexer Headset with microphone and PTT by Retevis, bought at eBay for about 15 €, fully compatible with Kenwood, preventing audio feedback through space and eliminating noise of environment.
- **Digital voice recorder** BTW: A tripod with Alaskan Arrow II will not be a good idea on that location: The Passat blowing there will definitely knock it down unless not guided!

Even the small Arrow II was sometimes hard to hold in the strong wind. Fortunately my son Nils, DO1NSP, assisted me when operating at the seaside, helping me to put things together, unfortunately he was not allowed to operate with his German E-Class ticket in EA.
Beach location was ideal for NE to SW and vice versa passes with an ufb take off, only SO-50 was problematic due to QRM on 70cm downlink, broadcasted by electronic trash used in the shops and bars behind me.

From our balcony I could operate all Sats on NW to SW and vice versa with good sigs.

AO-85 was the only bird, that I could not work from EA8, only Mrs. Veronica and no transponder activation, even in full sunlight. Bad luck.

Besides radio and bathing, we visited Parque Nacional de Timanfaya, including camel ride, impressing with its landscape built by volcanos, barbecue using heat still coming up at Restaurant Diablo and some experiments shown by Rangers, demonstrating the power of vulcanic heat and Kart racing in San Bartholome.

At this point I want to say Muchas Gracias to all guys coming back on my calls from IL38GX, Costa Teguise, and to emphasize the great fun I had on unknown quiet and disciplined passes, even on weekends and to be on the other side of pile-up (to be the Fox, not the Hound).

Hopfully I'll work the Canaries myself from home QTH-never got a QSO here in my log!.

73 de Bernd, DL4ZAB

**JW, Svalbard on Sats**

Rafaello, OH8FKS during the last fortnight of the month of August has been operative in the last passes of the day the Svalbard entity, from Longyearbyen JQ78tf as JW / OH8FKS / P.

His operation was limited to passes above 7:00 pm, since his stay at JW was for work reasons, and he tried to leave in as many passes as he could due to his work limitations and the weather conditions of the area (temperatures between 0ºC and 5ºC)

For this he used an FT-817 and an Arrow II antenna supported by a tripod with which he could work with FM satellites (AO91, AO92, AO85, SO50) as SSB FO29, AO7, XW in Half-Duplex mode, so he used frequency fixed TX.
CT7/EA4SG from IM56/57

Hi all:

Let me tell you something about my recent satellite activity as CT7/EA4SG in the southeast of Alentejo and Vicentina Coast in the south part of Portugal.

My radio activities were “holiday style” making contacts occasionally and spending more time with the family. Even so, I could give the grid IM57 to many needing it. It’s a grid we sometimes listen but it’s not easy to get it confirmed. I also activated IM56. I did 22 QSOs, all of them thru AO91 with 16 different stations and 5 different entities. The places I activated were: Vilanova de Milfontes (IM57OR) and Zambujeira do Mar (IM57OM) in the Alentejo region and Aljezur (IM57OF) and Sagres (just by the line where IM56MX-IM57MA get together) in the Algarve region. I updated all the info about my activities in the AMSAT EA whatsapp group and AMSAT International Ops.

When you go on vacation with the family the car is crammed of family stuff, and mine was very stuffed, but I managed to get my gear for this “mini sat expedition”. I grabbed a minimalist configuration but with enough toys to do the job: a Kenwood TH-D7E (5w with external power supply and 2.5 with batteries). Elk Antenna (5 el portable logperiodic) and the tracking software AmsatDroid.

The activation of FOX-1B (AO91) orbit #4076 on august 21, 2018 deserves a special mention. For that pass I decided to go and activate the European grid with less amount of land to step on, IM56. That grid has only a sub-grid in a small solid ground area, IM56MX with just 0,16Km2 (0,062 square miles) (see photo). Except some /mm activation by Yuri, UT1FG, there are no references of satellite activations from the continental side of IM56.
The only known activations made in 2004 by EA7AHS and CT1EPS, in 2011 (CS0RCL) and 2015 (CR6PS) were in the 6m-4m-2m-70cm bands but none thru satellites.

IM56MX is located in the inner facility of the Fortaleza de Sagres, well known portuguese National Monument, also known as Castillo de Sagres (Castle of Sagres) or Fuerte de Sagres, which is located in the southeast of the Algarve.

For the stunning windy cliffs, visitors enjoy an awesome view of the ocean and the coast and the Sagres Coves, San Vicente cape (the European continent southwest corner) and the hugeness of the Atlantic Ocean.

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There you can find the “Rosa de los vientos”, a small chapel and the viewpoint in the Sagres cape. Actually, the fortress is open daily for visitors, paying a 3 euros fee where you can visit places built before the XVIII century and modern facilities like an exhibition hall, multimedia center, cultural shops and cafeteria.

But one of the most catching tourist attraction is the “Rosa de los Vientos” (Wind Rose) with a diameter of 43m and located at the fort entrance, a small chapel dated in the XVI century etc…

Too many tourists in the area, so I was not alone during my quick sat activation and I had no problems to grab all my radio stuff into the area, as there are no security check point. The only way to activate IM56 was entering thru the fort`s door. From there I was able to do 8 contacts and I was so happy to offer this unique opportunity to have this weird grid confirmed on satellites.

73 and good DX

David EA4SG
AMSAT-EA