Amateur RADIO Society News

Newsletter of the Amateur Radio Society of India - VU2ZH
Indian Affiliate of the I.A.R.U
July 2025 issue

160 years of ITU. *Back in 1865, the first International Telegraph Convention set out the template for technical collaboration between nations. Today, as digital and space-based services surge, the International Telecommunication Union (ITU) continues fostering cooperation to bring the benefits of technologies to everyone.*

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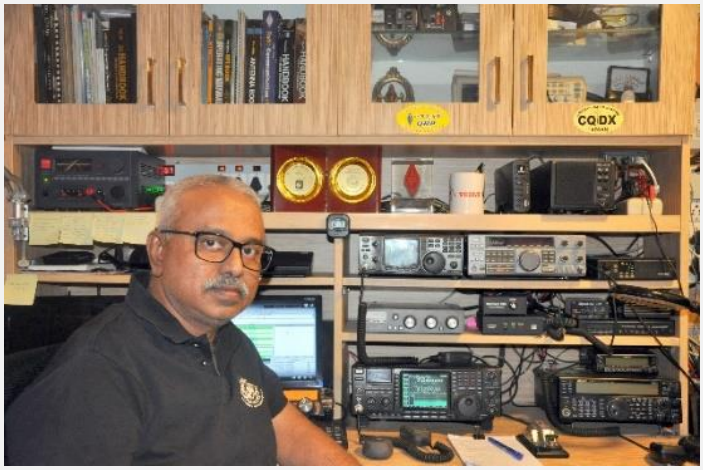
President's message



Amateur Radio: Timeless Skills in a Modern World

Amateur radio teaches us something increasingly rare in the digital age: how to communicate independently. It sparks technical curiosity, strengthens problem-solving abilities, and provides hands-on experience with electronics, radio propagation, and resilient systems.

While most of today's communication flows through corporate platforms and vulnerable infrastructure, amateur radio stands apart. It is democratic, decentralized, and durable - a communications network owned by the people, powered by skill, and ready when all else fails.

73, de Ramesh Kumar VU2LU

From the Editor's desk

The solar max continues – and the activity is expected to continue through 2025, and the effects possibly stretching into 2026 and taper off by 2029 or 2030, and that's when the next *Solar Cycle, # 26* is projected to officially begin.

Having survived through five solar cycles since I got my ticket – I find a difference in the current solar max related to ham radio. The band openings have not been good when compared to the earlier solar max periods – especially between 1970 an 1990. I don't know if other active members feel that way – your comments are welcome.

Participation in contests is slowly picking up – I have included the results of the contests held during the year – the *ARSI 40 Meter VU SSB contest* and the *ARSI QRP Day contest.*

The Editor is not receiving news from the clubs and articles from members – except from one or two regular contributors. Kindly forward the news and articles to the Editor who is trying to make the *Ham Radio News* more interesting.

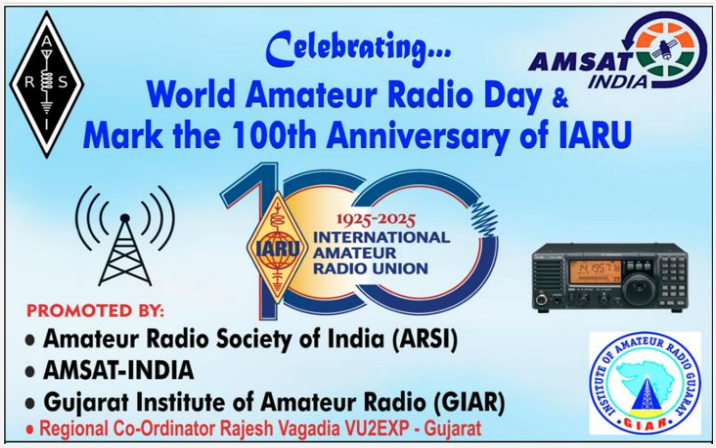
73 and happy Dxing

de Ganesh / VU2TS

Rajkot - Gujarat Celebrates 100 Years of IARU & World Amateur Radio Day 2025

Two Impactful Awareness Events Held in Rajkot, Gujarat by Rajesh Vagadia VU2EXP

In a significant celebrations for the 100th Anniversary of the International Amateur Radio Union (IARU) and the World Amateur Radio Day 2025, Rajkot witnessed two thrilling back-to-back events organized by Rajesh Vagadia VU2EXP, Gujarat Regional Coordinator forAmateur Radio Society of India (ARSI) and AMSAT-INDIA.



Themed *"Anchoring the Next Century of Amateur Radio Communications and Innovation,"* both events were meticulously designed to ignite curiosity, cultivate technical understanding, and inspire young minds to explore the limitless potential of Amateur Radio as a medium of communication, experimentation, and public service. As April 18th was a public holiday, we planned to celebrate our both events a day before.

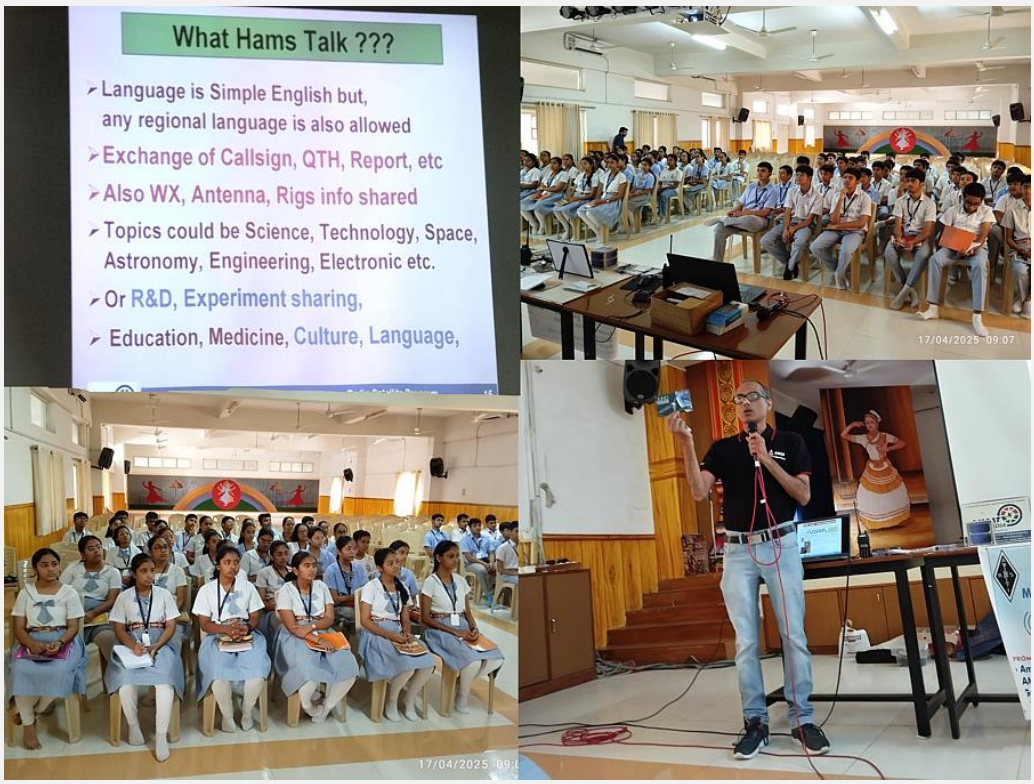
Session 1: A Spark of Curiosity at Saint Paul's School, Rajkot

The morning of April 17, 2025 buzzed with excitement as 80 bright-eyed students from Class 9 (Science stream) gathered at Saint Paul's School, Rajkot, for an engaging awareness session on Ham Radio.

The session unfolded with interactive discussions and practical demos on:

- What is Ham Radio and why it matters
- Role of ARSI, AMSAT-INDIA & IARU
- Radio Station Setup and Components (Transceivers, Antennas, PSUs), etc

- Understanding QSL Cards and the VU QSL Bureau Services (Credits to VU2LU)
- SSTV – Sending Images Over Radio
- Digital Communications - Sending text messages
- Live APRS-IS (Automatic Packet Reporting System) Demonstration



Students were captivated by a live SSTV image decoding demo, watching real-time signals transform into visual data. As Rajesh Vagadia VU2EXP traveled toward the venue, students also tracked his journey using the APRS system on aprs.fi with SSID VU2EXP-10, adding a live-tech thrill to the classroom learning!

Commemorating the Legacy: "MyStamp" Unveiled

To honor this historic occasion, a *postage stamp* - **MyStamp** - custom-designed by Rajesh VU2EXP was unveiled featuring the Gujarat theme celebrating 100 years of IARU and World Amateur Radio Day. The first copy was respectfully presented to Mrs. Susan Madam, representing Saint Paul's School. Students were introduced to the world of philately and how communication history can be preserved and celebrated.

Postage stamps depicting *Kite Festiva – Rs.2.- and Rs.5/-, Dandia Dance, and Mahatma Gandhi of Rs.5/- value*

Session 2: Technical Immersion at Government Engineering College, Rajkot

Later in the day, we reached the Government Engineering College (GEC), Rajkot at 10:45 AM. We were warmly welcomed by Shri S. B. Parmar Sir, HoD of the Electronics & Communication Engineering (ECE) Department, along with Professors Ravi Mehta, Prof. Jay Pandya, and Prof. Manish Patel.

More than 120 keen engineering students from the ECE branch, along with 7 faculty members, participated in this in-depth technical workshop on Amateur Radio, Digital Communication, and Satellite Technology.

Exhibition Highlights: A Hands-On Experience

A rich collection of radio and satellite gear was on display, including:

- All Band All Mode Icom IC-705 SDR Radio
- HTs (Handy Talkies) & Antennas
- DC Power Supply Units
- Morse Keys, Oscillators, and Keyers
- RTL-SDR Dongles for Signal Reception
- Tape Measure Antenna / Whip Antenna
- CubeSat Model
- Ham Logbooks, QSL Cards, Licensing Documents
- Books, Magazines, and Technical Articles

Students had the opportunity to see, touch, and understand these exhibits—many for the first time—bridging theory with real-world technology.

Topics Covered: Learning Beyond Textbooks

Rajesh Vagadia VU2EXP expertly guided students through a spectrum of topics:

- History of Amateur Radio
- Introduction of IARU, ITU, ARSI, AMSAT-INDIA
- Fundamentals of RF Communication
- Ham Bands, Frequencies & Operating Protocols
- Amateur Radio vs Mobile Phone
- Ham Terminology, Q-Codes, and the RST System
- Use of Distress Calls (SOS, MAYDAY) Life saving call in radio communication
- Emergency Communication During Natural Calamities
- Overview of Amateur Radio Satellites & Modes
- Understanding LEO, MEO, and GEO orbits
- Radio Events - ARDF, Hill-Top, LightHouse Activation, Contest etc.

- Adventure with; EME, HAB Experiments,
- Receiving SSTV Images from the International Space Station
- APRS-IS Network Tracking Demonstrations

The APRS demo was self explanatory, while tracking VU2EXP-10 SSID in real-time added a dynamic, practical component to the learning. Link to our aprs tracking route is found at : https://tinyurl.com/VU2EXP-APRS-WARD-IARU

The hands-on SSTV demo allowed students to witness live signal reception and decoding between vhf stations in the auditorium, *They were surprised to know NASA / Apollo mission used a similar SSTV algorithm to send Images of the Moon.* By carrying a SSTV demo students learned how a picture is converted to audio frequency, transmitted from one point to another, received by another station & get decoded image line by line on the projected screen! Here is our live SSTV Decoding taking place of a Student girl; https://youtu.be/OyXaKPNehtA?si=Nb9uXfZtD6Yp4hX2

For the VHF FM communications - Voice Demo, three groups were formed, we guided how to hold HT (in left hand, so one can note down msg with right hand), speak loud & clear after pressing a PTT to initiate a Talk followed by callsign/message & ended with Over! Students enjoyed such a modulation test and had lots of fun conversation between other groups, Also all the faculties On Air shared their valuable views & gave encouraging feedback for our Amateur Radio Awareness event.

Curiosity Ignited

The students showed tremendous interest and raised thoughtful questions, especially about the research potential of amateur radio, radio data analysed for meaningful

projects, it's role in disaster management, and how they can participate in **ARISS events** or build their own **low-cost HF receivers.**.

Our special **MyStamp** was presented to **Prof. Jay Pandya Sir** and the faculty team as a token of appreciation and memory of this remarkable event.

Spreading the Wave of Wireless Wisdom

These events served as a perfect fusion of **science, history, innovation, and hands-on exploration**, leaving a deep impact on both school and college students. They not only learned about radio—*they experienced it*.

Rajesh Vagadia VU2EXP emphasized that *Amateur Radio is not just a hobby, it is a gateway to innovation, experimentation to Satellite & space science, and emergency communication for the best use of our Radio.* He encouraged students to explore licensing and contribute to research, satellite tracking, and communication technology.

Words of Gratitude

Rajesh Vagadia VU2EXP extends heartfelt thanks to:

- **Respected Father James & Susan Madam**, Saint Paul's School, Rajkot
- **Shri Parmar Sir**, HoD ECE, GEC Rajkot
- **Prof. Jay Pandya (Coordinator)**, **Prof. Manish Patel**, and **Prof. Ravi Mehta**
- **Rameshkumar VU2LU, Krishna Kumar VU2YUU,** and **Madhukar VU2MUD** from ARSI for excellent organisation support.
- **Maniji VU2WMY**, **Nitin VU2JEK**, and **Kaustav VU2UUU** from AMSAT-INDIA for best technical support.
- **Shri H. C. Mehta** for creative guidance & support to make **Gujarat-themed MyStamp** for **WARD IARU** Celebrations
- **Shri Pravinbhai Valera VU2CPV & Dr. Jagdishbhai Pandya VU2JGI** from **GIAR (Gujarat Institute of Amateur Radio)** for regional support & guidance.
- We thank DX organisations incl. IARU, AMSAT, ARISS, and ARRL for their global contributions.

Conclusion

The **World Amateur Radio Day 2025** celebration in Rajkot was more than just a commemoration—it was a micro launchpad for the next generation of experimenters, communicators, and innovators. With the potential of Ham Radio, the spirit of learning,

and the strength of collaboration, the future of wireless communication is in capable hands.

Our ARSI headquarter in south India too celebrated this event with other partner radio clubs at Bangalore - Karnataka in a big way, their photo story could be viewed at https://tinyurl.com/2urdk24v

Our state club, GIAR has also exhibited a nice event with wonderful Ham operators Eyeball and also conducted HF/VHF Demonstrations at a beautiful nature park of Gandhinagar - Gujarat

73! Best Wishes and Good DX!

de Rajesh Vagadia VU2EXP - Rajkot, Gujarat (India)

Gujarat Regional Coordinator for;

• Amateur Radio Society of India (ARSI)

• AMSAT-INDIA

Mobile: +91-9898283916 Email: vu2exp@gmail.com

Web: www.qrz.com/db/vu2exp

A WORLD WITHOUT ITU?

ITU has been touching people's lives for 160 years, from messages and calls to cybersecurity, digital alerts, and global collaboration platforms. But what if ITU had never existed?

Play the video

Pune Hams (VU2RCP) celebrated World Amateur Radio Day

Friday 18th April 2025.

This day signifies the anniversary of the forming of the *International Amateur Radio Union (IARU) at Paris in 1925.* The celebrations by VU2RCP members was at Hunnar Gurukul - near Pune. More than 30 students and Invited participated and understood every thing about Ham Radio.

https://g.co/kgs/BQsQFFN

A team of 10 Hams & SWls from Pune arrived at Hunnar Gurukul on 17th April afternoon. They set up HF Antenna and fired the Rig around 5:00PM with a number of contacts on 20 Meters. The HF QSOs continued for more than two hours, providing an excellent demo to the Gurukul Team.

VU3ZNE and Swl Vijay organised *star gazing* for the students. The students enjoyed observing the stars and planets, using a telescope. This was followed by variety entertainment

Next morning the team was QRV on the 40Mtr band. The band conditions were very favourable. The students enjoyed a modulation test in the local Marathi language. VU3UEL and VU2BRJ gave nice demos. The Kannada QSO with VU2KOC was most enjoyable for SWL Dr Sanjay Pujari .

The Morse code demo by VU2VPR was thoroughly enjoyed by Students.They learned to identify the alphabets E I S H & T M O.

The following video was shared for more learning

https://youtu.be/PqMV97J2Ubs?si=MtVW-K2JZsFuCOU8

VU3GPE OM Kute Patil from Handi Nimgaon Newasa (who is President of the Shirdi Amateur Radio club) explained about ASOC exam, it's syllabus with licensing procedure which answered most of the queries.

How to become a HAM?? ***https://youtu.be/nEw61nyKcPo***

VU3ZNE OM Parth gave an excellent presentation on Radio Astronomy and explained Ham Radio & Radio Astronomy and complimentary hobbies.

He also shared about his 21 CM Radio Telescope for Milkyway observations which was appreciated at URSi conference Bhimtal.

SWL Vijay Chiudhari talk about Astrophotography and interacted with participants and explained various types of Photography with a demo.

SWL Datta demonstrated the working of an *Emergency Repeater* using two handies. If attached to Helium Balun and sent up, this can cover a long distance.

OM Manish VU3IFQ conducted a QUIZ contest on Radio. Most of the answers were correct. The students were really smart.

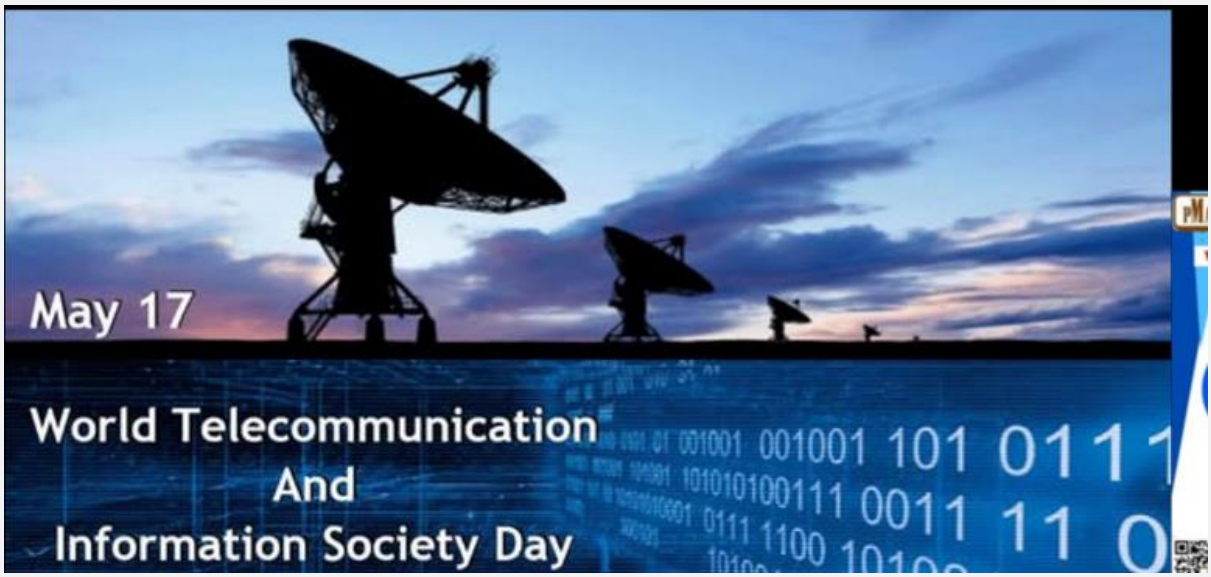
The World Amateir Radio day celebrations ended with a vote of thanks.

Mr Aniruddha Bansode, creator of Hunnar was present. He appreciated the efforts of Pune Hams and proposed the Vote of Thanks.

73

Vilas Rabde VU2VPR Pune

+919822502078,
+918999055112



Pune Hams VU2RCP in association with Tech Forum & PMA Celebrated WTISD on the topic *Bridging the Digital Divide and the Power of 5G* - on 17th May 2025 being the World Telecommunication and Information Society Day (WTISD). This day signifies the anniversary of the forming of the International Amateur Radio Union (IARU) in Paris, in 1925.

The location of the Forum was *Hunnar Gurukul* near Pune. More than 30 students and Invited participated and understood every thing about Ham Radio. A team of ten Hams & SWls from Pune arrived at Hunnar Gurukul on 17th April afternoon. They set up HF Antenna and fired the Rig around 5:00PM with a lot of Radio contacts on 20 Meters. The HF QSOs lasted for more than two hours which gave very good demo to the Gurukul Team.

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VU3ZAG OM Sooraj led an insightful session emphasizing the significance of this day, which commemorates the founding of the International Telecommunication Union (ITU). The day serves as a global reminder of the importance of the Internet and Information and Communication Technologies (ICTs) in fostering inclusive and sustainable-development.

He underlined the urgent need to ensure that digital opportunities reach all individuals, regardless of geography, gender, or socio-economic status. The core of his presentation revolved around the transformative power of 5G.

He explored how next-generation 5G technologies, including mmWave (millimeter wave), Massive MIMO *(Multiple Input Multiple Output),* and RAN *(Radio Access Network)*, are revolutionizing industries and reshaping connectivity.

Through real-world examples and forward-looking insights, He emphasized the role of 5G in creating a smarter, more connected world – one where digital inclusion and technological advancement go hand in hand.

Vilas Rabde

VU2VPR - Pune Hams(VU2RCP)

ARSI is pleased to announce the final Results for the recently held QRP Day Contest 2025. Hearty congratulations to all the winners. We hope that this contest gave you all a lot of learning while working in QRP. We hope for more participation in the upcoming contests too.

Sl No	Call	Category	Rank	#QSO VU	#QSO DX	Total	Mult	Final Score	Dupes	Wrong Call / Freq	Outside Contest Time	Team Members
				1	2	Points						
1	VU2ADV	Mixed	1	2	259	520		520	13	47		
2	VU2IBI	Mixed		3	68	139		139				
3	VU2GRM	Mixed		14	17	48		48				
4	VU2JOS	Mixed		19	0	19		19				
5	VU2TUM	CW	1	2	6	14		14				
6	VU2EXP	Digital	1	6	290	586		586	25			
7	VU2JDC	Digital		3	133	269		269				
8	VU2RPS	Digital		7	116	239		239	1			
9	VU2LU	Digital		6	62	130		130	6			
10	VU3TBU	SSB	1	47	1	49		49				
11	VU3GWN	SSB		27	0	27		27				VU3GWN, VU3LLC
12	VU3EEY	SSB		7	0	7		7				
13	VU3LVE	SSB		3	0	3		3				
14	VU2MCW	SSB		1	0	1		1				
15	VU3KWK	Checklog										

The Final Results of the ARSI 40m CQ VU SSB Contest 2025.
Congratulations to all the winners and participants.
We hope to see more participation in the future contests too

ARSI 40m CQ VU SSB Contest 2025							Deductions	
Sl No	Team Call	Category	Rank	#QSO VU	#QSO DX	Total	Dupes	Wrong Call / Freq
				1	2	Points		
1	VU2YVK	General	1	35	7	49		
2	VU3SIO	General	2	27	4	35		
3	VU2ADV	General	3	20	5	30		
4	VU3GWN	General		20	1	22		
5	VU2CWO	General		6	0	6		
6	VU2MCW	General		2	1	4		
7	VU2JOS	General		2	0	2		
16	VU3OCG	Homebrew	1	22	1	24		

Guidelines for sending/receiving QSL cards via the

ARSI QSL Bureau

Please follow the guidelines at https://arsi.info/qsl-bureau/ to receive your cards. Handling & Processing Fee for receiving in-bound cards is Re.1 for each QSL card. Minimum fee is Rs.15/- and further on in a multiple of 5. Cards will be sent by ordinary post (no tracking). We cannot estimate or assure you regarding the delivery time. We are not responsible for delays or non-receipt of the ordinary post as we have no control over the same, once mailed.

Handling & Processing Fee is applicable even if the cards are delivered by hand. Cards will be handed over once the payment is made to ARSI account.

If you need the QSL Card by speed-post, please add an "additional amount of Rs. 50/-" to the calculated amount. We will share the speed-post tracking ID with you—via--email.

Please send your queries and payment screenshots to <**qslBureau@arsi.info>** and endorse a copy to <vu2lu@yahoo.com> and treasurer@arsi.info

73

Ramesh Kumar VU2LU - President, ARSI / Manager, India QSL Bureau

ANOTHER SATELLITE TRACKER

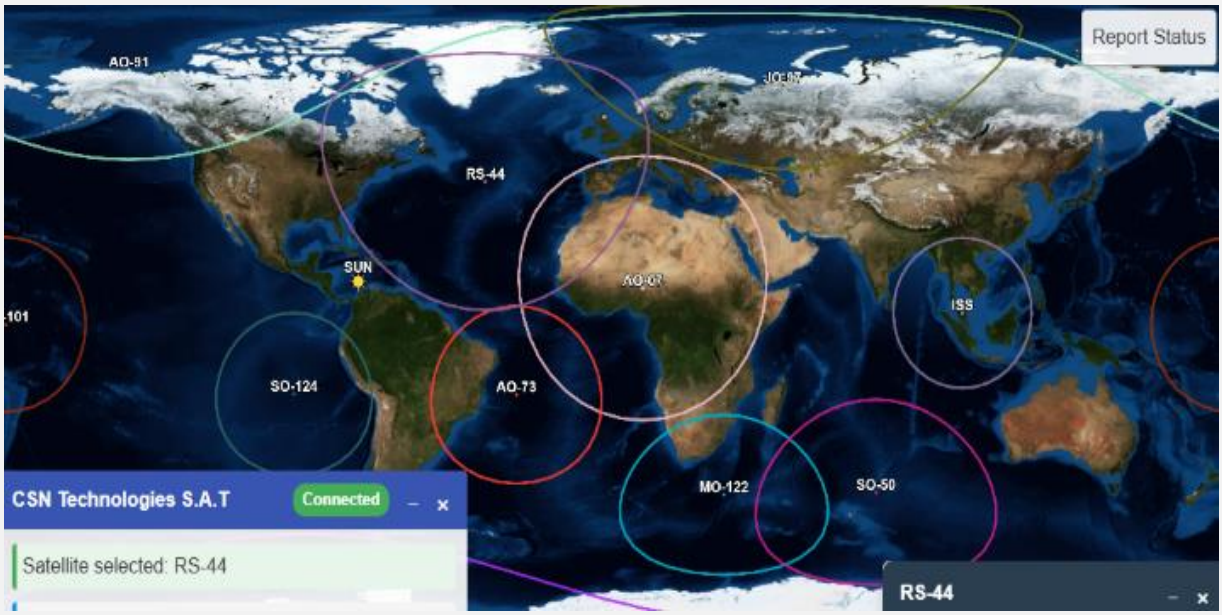
There are several satellite tracker softwares available; here's another one – a real-time satellite tracking, pass predictions, and radio hardware integration designed for amateur radio operators. Use online or self-host. Interactive world map with satellite positions, footprints, and ground tracks. Polar radar visualisation for detailed pass analysis. Upcoming pass list with detailed timing, schedule view, minimum elevation filtering, and optional pass notifications. Full integration with CSN Technologies S.A.T Hardware and QTRigDoppler for automatic radio control, antenna tracking, and transponder management.

Find mutual visibility windows with other stations using grid square-based location input and customisable filters. APRS message interface with pre-defined macros, position reporting, and message history tracking via WebSocket. Hams.at API

integration for rover activations with upcoming roves display and direct links for detailed information.

A modern web-based satellite tracking application designed for amateur radio operators and satellite enthusiasts. Zenith provides real-time satellite tracking, pass predictions, and radio integration features.Experience the full-featured interface with real-time satellite tracking, pass predictions, and hardware integration!

Download here: https://github.com/magicbug/Zenith



TIME MAPPER UHD

This is a visually stunning new program that combines mapping and time functions to produce an ever-changing 4K or HD *World Clock display* that will enhance whatever location it is displayed in.

Ideal for school, office, or amateur radio station, the Time Mapper UHD can be customized to produce an infinite number of display configurations to suit every requirement.

The numerous Time Functions can be adapted in many ways. Each Time Zone has its own clock, in analog or digital format, and a choice of label-content. Then, at the bottom of the screen you can display up to 5 large clocks, each with their own Time

Zone value and choice of format. You can also add your own Map Markers, which can show the local time at their locations.

The Time Mapper UHD is of special interest to the Amateur Radio Operator, with many useful features not seen in other programs: CQ Zones, ITU Zones, Ham Prefixes, NCDXF Beacons, Log import, Live QSO display from the N1MM Logger, Live Grid Square display, DX News Feed, Contest Calendar, DX Spots, Polar Bases, UDP Monitor, UDP Simulator.

The Time Mapper UHD can import 3 separate logs in ADIF or Cabrillo format, calculate log statistics, georeference them from Internal and Online Databases, and then plot them in a variety of ways, showing individual QSOs, Country Details, Flags, or Grid Squares.

For further reference, see the comprehensive Time Mapper UHD Help Guide.

-o-o-o-o-

A comprehensive, Open Source Amateur Radio operating manual. Courtesy of Noel Martin F4JJD - is available for download here:

https://t.e2ma.net/click/bn9ttm/b3pp1w/zd63v3

WTDC-25 registration now open

This year's *World Telecommunication Development Conference* (WTDC-25) will be hosted by the Government of Azerbaijan, to be held in Baku from 17 to 28 November.

Conference preview video: *Welcome to Azerbaijan*

https://itu.us20.list-manage.com/track/click?u=57ce1d3856f0f422e1e2cf64f&id=eadf042db8&e=a2f25bf46f

ARPS.Chat – Send and Receive APRS Messages Globally

This is a web service that allows ham radio operators to have all of their incoming APRS (Automatic Packet Reporting System) messages (regardless of SSID) saved in history on the web platform. This will enable operators to never miss a message, even

when their radios are turned off. The service works over the APRS-IS (APRS Internet Service) network, which bidirectionally connects APRS radios to the internet.

This is courtesy of Sarah Rose Giddings *(aka Signals Everywhere*) who has submitted her latest project called aprs.chat. Sarah notes that the service currently works through the website, but an Android app is planned for release in the near future. Patreons of Sarah/Signals Everywhere can get early access to the Android app on request.

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Introducing RTQM, the Real Time QSO Manager

QRZ Labs is pleased to announce a new upcoming feature, called the **Real-Time QSO Manager**, or **RTQM** for short. What is RTQM? Think of it as a spotting network, except that it's not based on random reports and observations but rather real-time user input. It's a way to call CQ silently, as well as a way to know exactly when stations are standing by. Calling CQ can be a frustrating experience. Since any of us can operate on thousands of frequencies and modes, it's just a random shot to call CQ out on the bands. By calling CQ, you're hoping that someone, anyone, will hear you. For that to happen, however, someone must stumble upon your call by happenstance, and possibly not during a time when you're listening.

That all fades into the past with RTQM. With this new feature, YOU put yourself on the world map indicating your mode and frequency, and then just wait for someone to call!

You don't have to call CQ at all, because you've effectively done that through RTQM. With RTQM, users can see who's available on all bands and all modes simultaneously. Rather than searching the bands endlessly for a weak signal, use RTQM to tune directly to the frequency and start listening.

Here's how it works: A QRZ user posts a "I'm here!" message on the RTQM server that indicates his mode, frequency, and location. These messages appear as pins on a world map that are visible to all other users. The "I'm here!" pin on the map lasts only 30 minutes, so you know the information is fresh. Users can refresh their pin if they're still listening on the same frequency. Other operators hearing or working the user also have the ability to indicate such and refresh the pin as well.

There are many exciting future plans for this feature and will initiate an initial Beta Testing phase shortly. Those who are interested in trying out new features and providing feedback on their use should comment on the thread and then we'll be in touch with more information. Please be aware that during the beta test phase, you may encounter a few issues with the software. The purpose of the beta phase is to identify and fix these issues before the general rollout of the service.

OFFICE BEARERS

PRESIDENT
Ramesh Kumar K G VU2LU
Care of Linux Learning Centre Pvt. Ltd.
635, 6th Main, Hanumanthanagar - Bengaluru KA 560019
e-mail: president@arsi.info

SECRETARY
Krishna Kumar.R. VU2YUU
466, 19th Main, 36th Cross
4th T-Block Jayanagar
Bengaluru KA 560041
e-mail: secretary@arsi.info

TREASURER
Madhukar K.R. VU2MUD
22, Mylar Krupa
15th Main, R.I.E.H.B.S Layout
J.C.Nagar Bengaluru KA 560086
e-mail: treasurer@arsi.info

EDITOR
Ganesh T S VU2TS
Watapi, B R Hills, Karnataka KA 571441
e-mail: editor@arsi.info

QSL MANAGER
Ramesh Kumar K.G. VU2LU
ARSI Registered Office
635, 6th Main, Hanumanthanagar
Bengaluru KA 560019
e-mail: qslbureau@arsi.info

Co-ordinator at WPC New Dellhi
Virendra Arya, VU2VAB
New Delhi
e-mail: aryavk@hotmail.com Phone: 99997 33223

Monitoring Systems Co-Ordinator
Sanil M.Deep VU2SIO
"Daylight" 23/1862, Kannanchery Road,
Kozhikode KE 673003

Contests and Awards Manager
Girish G.D. VU2GDS
113/A - 113/1 "Sanjeevi"
B.H.C.S. Layout
Bengaluru KA 560061

The address of the Society to which all correspondence is to be mailed:
Ramesh Kumar K G VU2LU
ARSI Registered Office
635, 6th Main, Hanumanthanagar
Bengaluru KA 560019