

Section Manager
East Bay Section Newsletter
February, 2025

ARRL East Bay Family,

Apologies for the very early delivery of this month's newsletter. I will be traveling the last week of January and first week of February, So it was either be 5 or so days early or 10-12 days late..

"As the firestorms across Southern California continue to threaten millions of residents, trained amateur radio operators are serving critical volunteer roles to help officials spot fires before they get out of control. Dry conditions and wind gusts of 100 miles per hour have fueled days of devastating wildfires. Entire neighborhoods have been leveled by infernos." So begins the ARRL's description of how hams are stepping up to help during the massive disaster occurring in our neighbor Division to the south. See the full report at (<https://www.arrl.org/news/ham-radio-operators-serving-during-california-firestorms>).

Happy Birthday to the Voice of America, which began broadcasting on February 1, 1942 and reaches over 200 million people worldwide. And Rest In Peace to the requirement for hams to know Morse Code to pass their license tests. The FCC's orders for the Technician Class license took effect on February 14, 1991; and for all classes of licenses on February 23, 2007.

Congratulations and thank you to the Walnut Creek SHAMS Amateur Radio Club and the University of California Amateur Radio Club for becoming affiliated with the ARRL on February 20, 2020 (5th year anniversary!) and February 28, 1950 (75 years!!), respectively.

*** Question:**

What is indicated by a rising A-index or K-index?

- A. Increasing disturbance of the geomagnetic field
- B. Decreasing disturbance of the geomagnetic field
- C. Higher levels of solar UV radiation
- D. An increase in the critical frequency

(See the last page for the answer.)

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Section & Division News:

*** Pacific Division Member Meeting**

Pacific Division Director Tony Marcin, W7XM, hosted a Division-wide member meeting on Saturday, January 11, 2025. If you missed it, or want to review it again, the recording of the meeting is available on Tony's website at (<https://www.pacific.arrl.org/town-hall>). Also on that page are the planned dates of the next two membership meetings; March 1 at 3:00 PM and July 12 at 11:00 AM. Put them on your calendar now so you can be sure to join us.

*** Section Manager Elections (Reminder)**

Nominations for the Nevada and San Joaquin Valley Section Managers are open. If you know someone in those sections that's interested in being the Section Manager, they need to consult the information at (<http://www.arrl.org/section-terms-nomination-information>). Included on that page is a link to the Section Manager Nomination Form, which will need to have at least five valid signatures from ARRL members in the section. Other requirements apply. Submission deadline is 4:00 PM Eastern Time (1:00 PM Pacific), March 7, 2025. The elected managers will begin their terms on July 1, 2025.

* Benicia Ham Class (Reminder)

The Benicia ARC will host another one of its one-day ham classes on Saturday, February 1, 2025. It will be from 8:30 am to 5:00 pm with a one-hour lunch break, at the Benicia Senior Center, 1201 East 2nd Street. The class offers training for both the Technician and General Class licenses. The fee is \$35.00, which includes the exam fee. For details and to register, see (<https://beniciaarc.com/hamclass/>).

* USS Hornet Ham Class (Reminder)

The Hornet ARC will be hosting a one-day Technician Class licensing session on board the USS Hornet on March 1st, 2025. The class will be taught by Rich Harrington KN6FW and Paul Shinn K6FRC. There is a \$15 fee for the exam and a \$35 licensing fee to the FCC. Applicants must first obtain an FRN from the FCC in order to attend the class and take the exam. You can register for an FRN at (<https://www.fcc.gov/wireless/support/knowledge-base/universal-licensing-system-uls-resources/getting-fcc-registration>). Study materials for the class can be downloaded at the rdf-sf Library page: (<https://qsl.net/s/sfthunt/rdf-sf/library/>). Click the "Tech Class 2024" link to download the study materials. Class will start at 8:00am in the ship's wardroom and it is recommended that all class attendees arrive by 7:30am. If further information is needed, or if you have further questions, you can contact Rich Harrington, KN6FW at (925) 462-1467. This information will also be made available on their website: (www.nb6gc.org).
[FRN = FCC Registration Number.] [Thankx to Gary, KE6QR, for the information.]

* International DX Convention

The 76th annual International DX Convention, sponsored by the Northern California DX Club, will be held at the Visalia Conference Center in Visalia, California, from April 11 - 13, 2025. This year's theme is "Back to Basics," an opportunity to learn effective tips and techniques to work DX and have fun doing it. The convention will feature a contest forum, DX forum, Contest Academy, DX Academy and the all-new full-day Next Generation DXing Program. There are seminars for everyone from the beginning DXer to the seasoned pro. The registration fee for all youth up to age 18 has been waived and allows free access to the convention programs, forums, and the exhibit hall. Meals, raffle tickets and the bus tour are not included with the free registration. Convention pre-registration ends at 00:00 UTC on April 3 (4:00 PM April 2). To register, see (<https://dxconvention.com/registration/>).

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ARRL News:

* Board of Directors Meeting

The League's Board of Directors and several committees met last month and a number of items were acted on. The minutes are not yet available, but some of the items are summarized below.

1. New DXCC Award

The Programs & Services Committee and headquarters staff from the Radiosport Department are creating of a new DXCC award -- DXCC Trident -- which will recognize those who achieve DXCC using CW, phone, and digital modes. Higher achievement endorsements can be earned at the 200, 300, and Honor Roll levels. The DXCC Trident award is intended to spur greater on-air operating and to inspire those using digital modes to also develop their skills in, and practice, CW and SSB.

2. 2025 Operating Plan

The Administration & Finance Committee discussed and approved the 2025 operating plan, amending it with an additional \$200,000 for Washington advocacy. This includes continuing work to reintroduce bills H.R.4006 and S.3690 -- the Amateur Radio Emergency Preparedness Act -- for passage.

3. Club Activity Initiative; Hamfest Rules

The Emergency Communications and Field Services Committee established an initiative to track and report on the activities of clubs nationwide. This initiative will help ARRL better understand the scope of these activities and improve club leadership tools. The committee also adopted a rewrite of the ARRL Active Club Primer, a tool for radio club leaders, and a rewrite of the rules and regulations for ARRL Hamfests and Conventions.

4. Proposed Changes to ARRL By-Laws

Last month, I outlined several proposed bylaws changes coming to the Board. The main ones are for By-Law 46, the Board's Conflict of Interest Policy, and By-Law 42, the charter for the Ethics & Elections Committee. Because the

motion was lengthy and some Directors believed they had not had sufficient time to review and comment on it, the Board approved delaying the vote until it meets in July.

The Board did approve two other motions, on Bylaws 18 and 20, both concerning elections. The Bylaw 18 revisions will clarify election procedures and candidate qualification; and move important elements describing elections into the Bylaws from less formally controlled documents. The Bylaw 20 revision removes the requirement that a selected qualified and disinterested third party be in person to observe ballot processing. This requirement is now obsolete, as the process is automated and can't really be "observed" in person.

5. Government Relations

The Board approved a motion to sunset the Governmental Affairs Committee and authorized the CEO to take on the responsibility of partnering with Director John Robert Stratton, N5AUS (West Gulf), who is currently working with ARRL's lobbyists in Washington DC. They also briefly discussed fund raising for the Legislative Issues Advocacy Fund. This included an appeal by Director Stratton for every Director and Officer to donate towards our legislative efforts. Less than a week after the Board meeting, nearly every Director and Officer has donated to the fund.

6. New Technical Standards Committee

The Board approved the formation of a Technical Standards Committee to oversee the successful Clean Signal Initiative (CSI) and to develop future initiatives including amateur radio receiver standards.

7. ARRL Foundation Report

In 2024, the Foundation awarded 126 scholarships totaling \$709,500, through the generosity of ARDC, individuals, and radio clubs. The Foundation also saw a return of the Club Grant Program and awarded 37 Club Grants totaling \$500,502.04. A total of 110 applications were received requesting \$1,593,580.24 for 2024. In addition, the Foundation awarded 25 grants valued at \$47,434, and 2 Division Convention grants for \$12,250.

[ARDC = Amateur Radio Digital Communications (<https://www.ardc.net/>)]

8. Next Board Meeting

The Second Meeting of the ARRL Board of Directors is scheduled for July 18 - 19, 2025.

* ARRL VEC 2024 Program Report

Early last month, the ARRL Volunteer Examiner Coordinator office reported to VEs on some information about the year 2024. Here's some excerpts. "The number of new licenses issued by the FCC in 2024 was strong, increasing by 23% compared to 2023, while upgraded license activity rose by 12%. VEs served nearly 25,000 exam applicants using the ExamTools online examination system last year, with 88% of candidates earning a new or upgraded license." "55% of all successful FCC license candidates were examined using ExamTools in 2024." "...more than 900 young people benefited from [the Youth Licensing Grant Program]". Recall that this program "will cover the one-time \$35 application fee for new license candidates younger than 18-years old for tests administered under the ARRL VEC program."

ExamTools is a program for taking and administering ham radio license tests, both in person and online. It's created and maintained by a company called SignalStuff, which also has the HamStudy website. Learn about SignalStuff and its programs at (<https://signalstuff.com/>).

* ARRL School Club Roundup (Reminder)

The next biannual ARRL School Club Roundup begins on Monday, February 10 at 1300 UTC (5:00 AM Pacific), ending on Friday, February 14 at 2359 UTC (3:59 PM Pacific). There are categories for elementary, primary, middle/intermediate/junior high school, senior high school, college/university, non-school and individuals. Be sure to help out these youngsters by getting on the air and contacting them. Details and rules are at (<https://www.arrl.org/school-club-roundup>).

* On the Air Live

Last month, I told you about a new video podcast coming to the League's YouTube channel, called "On the Air Live". The first edition will launch on January 28, just a couple of days after this newsletter was sent out. It will be about "Slow-Scan TV." A corresponding article is also in the January/February edition of On The Air magazine, called "SSTV: When a Picture is Worth a Thousand Words", written by Steve Ford, WB8IMY. Get the magazine article by logging into the ARRL website or through the ARRL Magazines app on your iPhone or Android device. To register for this or future live events, go to (<https://learn.arrl.org/>) scroll down and click on the event of your choice. You must be logged into the Learning Center and be a current paid ARRL member to access the registration. A video introducing the Live podcast is

on the monthly On The Air podcast at (<https://blubrry.com/arrlontheair/139659758/learn-even-more-with-on-the-air-live/>) [audio, 00:17:42] and (<https://www.youtube.com/watch?v=ZEQWSWDFXUo>) [YouTube, 00:17:40].

* “Ham Radio from Indoors”

The League has published a new book with the above title. It “shows you how to install an effective station and indoor antenna system in any setting.” You can order it for \$15.95 (member price) at (<https://home.arrl.org/action/Store/Product-Details/productId/2020642494>).

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Government News

* FCC Upholds \$34,000 Fine to Ham

The FCC has upheld a \$34,000 fine against an amateur radio operator for illegally using public safety frequencies and causing interference to US Forest Service operations in 2022. Information about the matter can be found at (<https://docs.fcc.gov/public/attachments/FCC-24-134A1.pdf>) The fine was levied for operation on 151.145 MHz causing disruption to air operations during a 1,000 acre wildfire near Lewiston, Idaho.

* FCC License Application Fees Stay at \$35.00

Last month, the FCC adopted an Order updating their Schedule of Application Fees. The “Communications Act of 1934, as amended, requires the Commission, in every even-numbered year, to adjust the schedule of fees for processing applications to reflect increases or decreases in the Consumer Price Index (CPI)”. This Order confirms that applications for personal licenses, such as amateur radio, will remain at \$35. The Order is available at (<https://www.fcc.gov/document/2024-application-fee-order>) [Doc, PDF & Txt; 16 pages]. Scroll down to page 5 to review paragraph (c) and its table of fees.

* World Radio Day

World Radio Day is an annual day proclaimed by UNESCO to commemorate radio “as one of the most dependable and widely utilized forms of media in the world.” It’s held on February 13 each year. Our own California Historical Radio Society (CHRS) will be participating in the day. You can visit them at 2152 Central Avenue in Alameda. See the World Radio Day website at (<https://www.unesco.org/en/days/world-radio>); The CHRS World Radio Day page at (<https://www.unesco.org/en/days/world-radio/california-historical-radio-society>) and the CHRS website at (<https://californiahistoricalradio.com/>).

[UNESCO = United Nations Educational, Scientific and Cultural Organization]

* NASA’s 3D-Printed Antenna

NASA has developed and tested a 3D-printed antenna to demonstrate a low-cost capability to communicate science data to Earth. The magneto-electric dipole antenna, tested in an electromagnetic anechoic chamber and in flight using an atmospheric weather balloon, could open the door for using 3D printing as a cost-effective development solution for the ever-increasing number of science and exploration missions. The bulk of the 3D-printed antenna uses a low electrical resistance, tunable, ceramic-filled polymer material. Who knows? You could soon be printing your own antennas. Get the details on NASA’s antenna at (<https://www.nasa.gov/technology/nasa-3d-printed-antenna-takes-additive-manufacturing-to-new-heights/>).

* FEMA’s Youth Preparedness Council

The Youth Preparedness Council (YPC) “is a nationwide program that brings together young leaders who want to make a difference in their community and build valuable leadership skills. Council members serve for one year and collaborate on projects that promote emergency preparedness, participate in engaging discussions with FEMA leaders, and gain insight into careers in emergency management. Students currently in grades 8 through 11 may apply. Applications can be submitted in either written or video format by March 3.” Get details at (<https://community.fema.gov/PreparednessCommunity/s/apply-to-ypc>). There will also be the second of two informational webinars to provide additional details about the YPC and answer questions (the first one was last month and had the same content). It will be on Tuesday, Feb. 11, at 5 p.m. ET (2:00 PM Pacific). Register for it at (<https://fema.zoomgov.com/meeting/register/vJltc-2rrDkrHtCOhQXrT6HznqlXMCyOV6g#/registration>).

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Other News:

* HamSCI Conference

HamSCI has announced that its next conference will be held March 14-15, 2025 at the New Jersey Institute of Technology in Newark, NJ. Get details at (<https://hamsci.org/hamsci2025>).

[HamSCI = Ham Radio Science Citizen Investigation]

* IARU Anniversary/ World Amateur Radio Day

This coming April 18 will be the 100th anniversary of the formation of the International Amateur Radio Union in Paris. So this will be a particularly special World Amateur Radio Day. All radio amateurs are invited to take to the airwaves on that day to enjoy our global friendship with other amateurs, and to show our skills and capabilities to the public. It's not a contest but rather an opportunity to "talk" about the value of amateur radio to the public and our fellow amateur colleagues. It is also a great opportunity to talk about your radio club and amateur radio in local media as a lead-up to ARRL Field Day. So see the ARRL report at (<https://www.arrl.org/world-amateur-radio-day>) and the IARU page at (<https://www.iaru-r2.org/en/on-the-air/world-amateur-radio-day/>). Then get your radio working on Friday, April 18, 2025 from 0000 UTC (Thursday 4:00 PM Pacific) until Saturday, April 19, 2025 at 0000 UTC (Friday 4:00 PM Pacific).

* Merci Train Special Event Station

"The Merci Train was a train of 49 French railroad box cars filled with tens of thousands of gifts of gratitude from at least that many individual French citizens. They were showing their appreciation for the more than 700 American box cars of relief goods sent to them by (primarily) individual Americans in 1948. The Merci Train arrived in New York harbor on February 2nd, 1949 and each of the 48 American states at that time received one of the gift laden box cars. The 49th box car was shared by Washington D.C. and the Territory of Hawaii." [from the Merci Train website.] The Pacific Division has two of the boxcars. The California boxcar is in Fresno and the Nevada one is in Boulder City. In commemoration of this gift, the American Legion Paradise (NV) Post 149 and its ham station, NV7AL, is hosting a special event station on Feb 19-23. Get details on that event in the "Hamfests and Special Events" section below. The Merci Train website is at (<http://www.mercitrain.org/>), where you can learn more about the train. Click on "Merci Boxcars by State" in the navigation bar to find web pages for all the cars in each state. Also see the Wikipedia page (https://en.wikipedia.org/wiki/Merci_Train).

[Thankx to Vicki, N6KLS, for the tip.]

* YL OM Contest

The Young Ladies Radio League (YLRL) is hosting a worldwide "YL OM Contest" on Thursday February 13, 2025 at 00:00 UTC (Wednesday 4:00 PM Pacific) until Friday February 14, 2025 at 23:59 UTC (3:59 PM Thursday Pacific). In an abundance of generosity, they even want us OMs and OGs (Old Goats, like me) to participate. In fact, the scoring is structured such that "YLS count only OMs and OMs count only YLS". Phone, CW and digital contacts (RTTY, PSK31, etc) are all allowed. Sounds like a fun time. Get details and rules on the YLRL contest page at (<https://ylrl.net/contests/>). [Thankx to Vicki, N6KLS, for the info.]

* HamSCI Hosting Zoom Sessions For Personal Weather Station

From the Amateur Radio Newsline Report for Friday, January 24th 2025:

"With terrestrial and solar weather on almost everyone's mind these days, HamSCI, the citizen science research group in the US, has announced it is hosting Zoom sessions to assist with its Personal Space Weather Station network. HamSCI hosts the sessions at 10 a.m. Eastern Time every Thursday on Zoom. The group is hoping to expand its network and improve data collection for additional studies. Visit (<https://hamsci.org/>) for more details.

* How Vacuum Tubes Are Manufactured

The ARRL journal "QEX" includes an ongoing series called "Self-Paced Essays", an excellent series explaining many concepts and fundamentals used in our craft. The January-February, 2025 edition includes a discussion of vacuum tubes, and ends with a reference to a vintage video on how tubes are manufactured in high quantity. Have a look at some of our history at (<https://www.youtube.com/watch?v=GDvF89Bh27Y>) [YouTube, 00:33:11].

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Hamfests And Special Events:

* 02/14-15/2025

Yuma Hamfest, ARRL Southwestern Division Convention. Location: Yuma, AZ. Sponsor: Yuma Amateur Radio Hamfest Organization. Website: (<https://www.yumahamfest.com/>).

* 02/15/2025

Big Island of Hawaii International Hamfest/Swapmeet. Location: Kamuela, HI. Sponsor: Kohala Hamakua Radio Club Website: (<http://KHRadioClubBigIslandHawaii@groups.io>)

* 02/19-24/2025

Merci Train Boxcar Anniversary. 0000Z-0000Z, NV7AL, Las Vegas, NV. American Legion Paradise Post 149 and 40&8 Voiture 306. 7.074 7.250 14.074 14.250. QSL. Robert Bencsko, 2548 Fort Lauderdale Dr, Las Vegas, NV 89156. This special event station is set up to raise awareness of the Anniversary of 40&8 "MERCY Train Boxcar" located in Boulder City, NV. Please check out the QRZ page. Watch for us on DX Summit QSL with SASE to AD7J. (<https://www.qrz.com/db/NV7AL>)

* 03/22/2025

Sierra Foothills / Loomis Hamfest. Location: Loomis, CA. Sponsor: ARRL. Website: (<https://hamfest.w6ek.org/>).

* 04/11-13/2025

International DX Convention, 76th Annual. Visalia, CA. Sponsored by Southern California DX Club. Website: <http://www.dxconvention.org>.

* 04/19/2025

Honolulu Hamfest. Location: Honolulu, HI. Sponsor: Emergency Amateur Radio Club of Hawai'i. Website: (<https://www.arrl.org/hamfests/honolulu-hamfest-1>).

* 04/25-27/2025

Big Bear HamEscape, ARRL Orange Section Convention. Location: Big Bear Lake, CA. Sponsor: Activate Big Bear, LLC. Website: (<http://BigBearHamEscape.com>).

* 05/30/2025- 06/01/2025

SEA-PAC, ARRL Northwestern Division Convention. Location: Seaside, OR. Sponsor: Oregon Tualatin Valley ARC and Clark County ARC. Website: (<http://www.seapac.org>)

* 10/10-12/2025

Pacificon 2025 Location: San Ramon, CA. Sponsor: Mount Diablo Amateur Radio Club. Website: (<http://www.pacificon.org>)

Search for all hamfests at (<https://www.arrl.org/hamfests-and-conventions-calendar>)

Search for all Special Event Stations at (<https://www.arrl.org/special-event-stations>)

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Significant Events in Telecomm History – February

** Note: Send me the date and location your club was founded, so I can add it to this list. **

02/01/1942	The Voice of America began broadcasting. It currently broadcasts an estimated 1800 hours of radio and TV programming each week in 47 languages to approximately 236.6 million people worldwide.
02/01/1954	Edwin Howard Armstrong, inventor of FM (frequency modulation) radio and the superheterodyne receiver system, died in Manhattan, New York at age 63.
02/03/2006	SuitSat-1 was released into orbit during a spacewalk from the International Space Station. A repurposed decommissioned Russian spacesuit fitted with ham radio equipment; it transmitted short messages in a number of languages before reentering the atmosphere about 7 months later.
02/04/1938	Scottish inventor John Logie Baird made the world's first color television broadcast, sending a mechanically scanned 120-line image between two buildings in London.

02/08/1922 President Warren G. Harding had the first broadcast radio receiver installed in the White House.

02/08/1996 The Telecommunications Act of 1996 was signed into law by President Bill Clinton; the first major amendment of the Communications Act of 1934.

02/11/1847 Thomas Alva Edison was born in Milan, Ohio.

02/13/2011 The first World Radio Day was proclaimed by UNESCO. February 13 was adopted by the United Nations in 2012 as an annual day of recognition of radio as the world's most widely consumed medium.

02/14/1876 Alexander Graham Bell and Elisha Gray both filed applications at the U.S. Patent Office for an "improvement in telegraphy". Three weeks later, Bell received Patent No. 174,465.

02/14/1990 The "Pale Blue Dot" image of Earth, made famous by Carl Sagan, was taken by Voyager 1 at a distance of 3.7 billion miles (6 billion kilometers) from the Sun. It was then sent back to Earth by radio, taking an (N6JGA-estimated) 5.5 hours to arrive from that distance.

02/14/1991 The FCC's Report and Order ending the requirement for Morse Code proficiency for the Technician Class license took effect.

02/16/1978 The first Computerized Bulletin Board System (CBBS) was released, having been developed over the previous few weeks by Ward Christensen and Randy Suess to allow them and other computer hobbyists to exchange information between each other.

02/17/1936 ARRL co-founder Hiram Percy Maxim, W1AW, died in La Junta, Colorado at age 66.

02/18/1745 Alessandro Volta was born in Como, Duchy of Milan, Italy.

02/20/2020 The Walnut Creek SHAMS Amateur Radio Club became affiliated with the ARRL.

02/22/1857 Heinrich Rudolf Hertz was born in Hamburg, German Confederation.

02/22/1978 The first Global Positioning System (GPS) satellite was launched.

02/23/1927 The Radio Act of 1927 was signed into law by President Calvin Coolidge, creating the Federal Radio Commission. It included the formal establishment of amateur radio bands.

02/23/1947 The International Organization for Standardization (ISO) officially began operations.

02/23/1978 The basic call sign structure in place today was established: call sign blocks by class; calls assigned consecutively; no longer need to change call signs when moving; discontinued separate licenses for repeaters, secondary, control and auxiliary stations.

02/23/2007 The FCC's Report and Order ending the requirement for Morse Code proficiency from all amateur radio licenses took effect.

02/24/2001 Claude Shannon, "the father of information theory", died in Medford, Massachusetts at age 84.

02/28/1950 The University Of California Amateur Radio Club became affiliated with the ARRL.

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New Hams:

January, 2025 Report

K3AUS	Callan Schebella	Danville
KO6HEH	Jeffrey Leonard	Fairfield
KO6H DU	Kevin Carwile	Fairfield (General)
W6IBM	Pavlin Zarkov	Fremont
KO6HHM	Khanh Nguyen	Fremont
KO6HDT	Alberto Barrera Jimenez	Hayward
KO6HHV	Alvin Luna	Hayward
KO6HHN	Juan Lopez	Livermore
KO6HJA	Cole McGinnis	Livermore
KO6HGG	William Kastner	Napa
KO6HHT	Hendrix Alcid	Pinole
KO6HHW	Edna Alcid	Pinole
KO6HAR	William Kleist	Pleasanton
KO6HBZ	Ashley Harkness	Dublin
KO6HES	Jennifer Cannon	Rodeo
KO6HDX	Christopher Bacich	Saint Helena
KO6HCH	Sherry Jensen	San Ramon
KO6H FY	Arjanveer Samra	Union City
KO6HDR	Richard Yee	Walnut Creek
KO6HFO	Christopher Hopkins	Albany

KO6HBD	Robert Faria	San Pablo
KO6HEU	Jesus Liberato	San Pablo

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New Upgrades:

The Ham Upgrade reports are currently not available, due to the IT systems disruption.

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Question & Answer:

What is indicated by a rising A-index or K-index?

A. Increasing disturbance of the geomagnetic field

[Extra Class question pool (2024-2028) no. E3C02 (<https://www.ncvec.org/index.php/2024-2028-extra-class-question-pool-release>)]

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If you'd like a better-looking PDF version of this newsletter, or want to refer to previous editions, they're all available on the East Bay Section website at (https://arrleb.org/index.php/files/get_dir/Newsletter).

Until next time, remember that the East Bay Section team is here to serve you, the hams of the East Bay. If you have a question or a problem concerning ham radio, don't hesitate to contact us.

Mike Patterson, N6JGA
ARRL East Bay Section Manager

Email: mapa@ieee.org

Website: <https://www.arrleb.org>

East Bay Section Discord: <https://discord.gg/DNAAfC7hax>

ARRL HQ Help Desk: 888-277-5289 or hq@arrl.org

Index of Contacts at ARRL HQ: <http://www.arrl.org/contact-arrl>

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