# W7RPT Live

Your guide to the network, the bands, and the sky.

**OPEN THE LIVE DASHBOARD**
**https://w7rpt.sincityrepeaters.com**




Figure 1. Updated dashboard rendered from the application with demonstration data. The external PulsePoint panel is represented by a placeholder in this screenshot.

## START HERE

**1.** Open the address above in a modern browser. No login is required for the public display.
**2.** Select **Fullscreen** to use it as a shack or club monitor. Use Esc to exit fullscreen.
**3.** Watch the two AllStar hubs, the HF map, and the automatically rotating lower panel. Select **Enable chime** if you want the upcoming-net reminder.

### READ-ONLY BY DESIGN

W7RPT Live is a situational-awareness resource, not an AllStar controller. It does not transmit, change links, or guarantee that a station is available. Screenshots in this guide use sample values, not live reports.

# Monitor the network

The header is your quick reference. The left column shows what is happening on the national and local hubs.

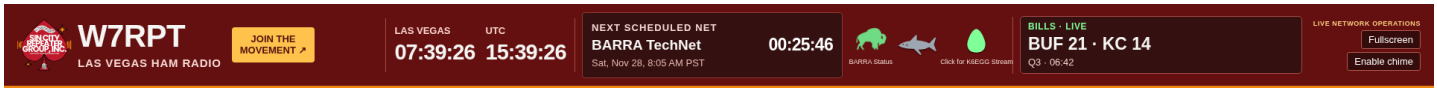



Figure 2. Header controls, clocks, net countdown, status icons, and sports ticker.

**Clocks:** Las Vegas local time and UTC. **Next scheduled net:** countdown and local start time; “In progress” when underway. The optional chime is intended to alert you near net start. **Join the Movement:** opens the club membership page.

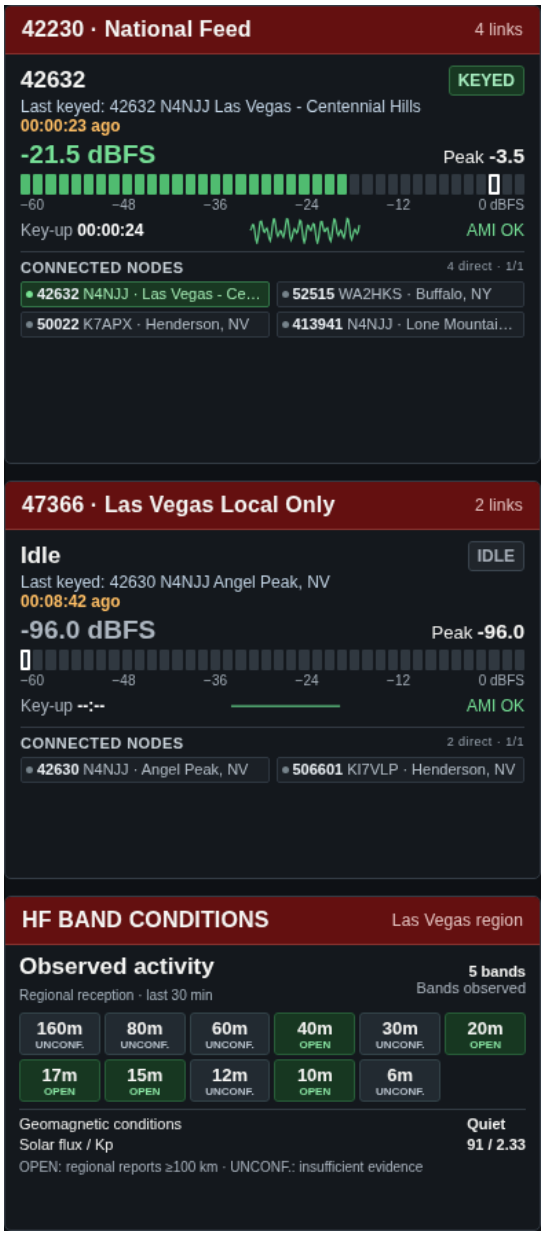



Figure 3. Hub panels and the compact HF band summary.

## READ THE HUB PANELS

### 42230 · National Feed

National and affiliated network traffic.

### 47366 · Las Vegas Local Only

Local hub activity, displayed separately.

### KEYED / IDLE / OFFLINE

Keyed means the hub reports active audio; idle means no current activity. Offline indicates unavailable meter data, not necessarily an RF outage.

### Last keyed

Node number, callsign, and location if known, followed by a running elapsed counter. It identifies the last reported node, not always the individual RF operator.

### Audio meter & key-up

dBFS and peak show digital audio level; the key-up timer tracks an active transmission. This is not RF RSSI.

### Connected nodes & AMI

Direct links are listed by node, callsign, and location when available; hover for details. AMI OK indicates the monitoring connection is responding.

# Find a band to work

Use observed reception reports first, then consult ionospheric and solar measurements for context.

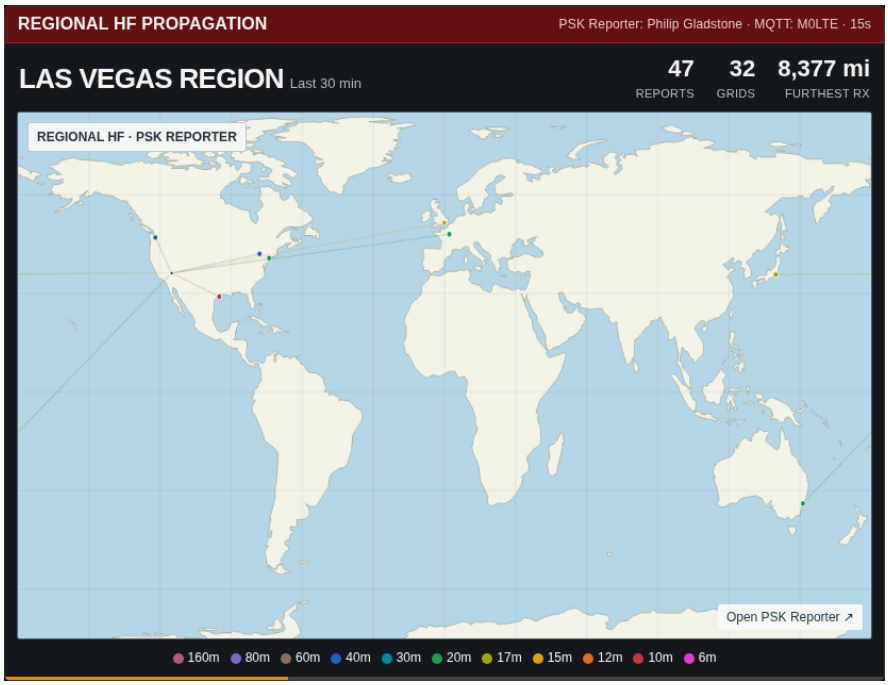



Figure 4. Regional HF propagation example.

### Member spotlight

When member reports are available, the map cycles through active callsigns. Otherwise it shows regional reports.

### Reports / grids / DX

Report count, distinct grids, and farthest reported reception in miles. Colors correspond to the band legend.

### Open PSK Reporter

Click the map link to explore individual reception reports and filters.

## ROTATING HF BAND CONDITIONS




Figure 5. Ionosonde-based band candidates and observed reports.

**Reported / OPEN:** reception evidence exists. **UNCONF.:** insufficient evidence, not proof that the band is closed. **MUF:** estimated maximum usable frequency for a representative 3,000 km path. **foF2:** vertical-incidence F2-layer critical frequency, useful for regional/NVIS context. **SFI and Kp:** solar flux and geomagnetic activity.

### TRY THIS

If 20 m shows reported activity, start there. If 15 m is a DX candidate, listen and test a specific path. A prediction is not a guarantee; antenna, noise, mode, and geography matter.

# Work an amateur satellite

The dedicated amateur-satellite guide and the ISS map are separate views. All predicted pass times are for the Las Vegas reference location.

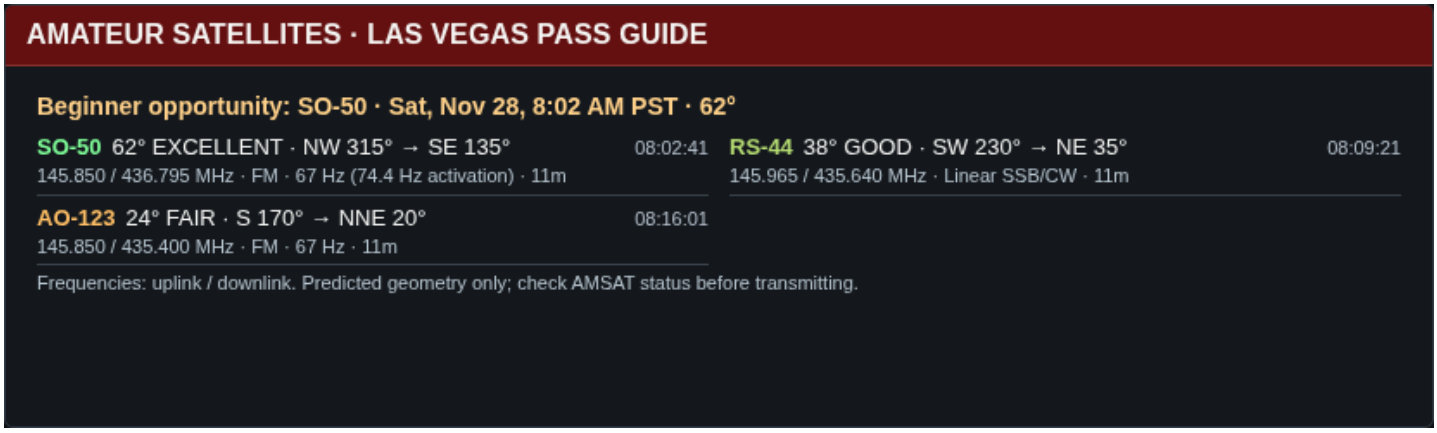



Figure 6. Pass guide showing maximum elevation, compass directions, and frequencies.

**AOS** (acquisition of signal) is when the predicted pass begins; **LOS** (loss of signal) is when it ends. Point toward the starting azimuth and follow the satellite toward the ending azimuth. Uplink is the transmit frequency; downlink is the receive frequency.

| 0–14° | 15–29° | 30–44° | 45–69° | 70–90° |
|---|---|---|---|---|
| POOR | FAIR | GOOD | EXCELLENT | OUTSTANDING |

Higher passes generally offer shorter paths and less terrain obstruction. A 45° or higher pass is a good beginner target; nearly overhead passes may require fast tracking.




Figure 7. ISS ground track, estimated radio-horizon footprint, and next local pass.

The ISS countdown turns **green within 30 minutes** of AOS and stays green during the predicted pass. The footprint is an estimated geometric radio horizon, not a guarantee of coverage or optical visibility. Check **AMSAT operational status** and current ARISS frequencies before transmitting; predictions do not confirm the radio is active.

# Watch the sky and grayline

The lower rotating window also offers global twilight, local propagation timing, aircraft, and regional radar.

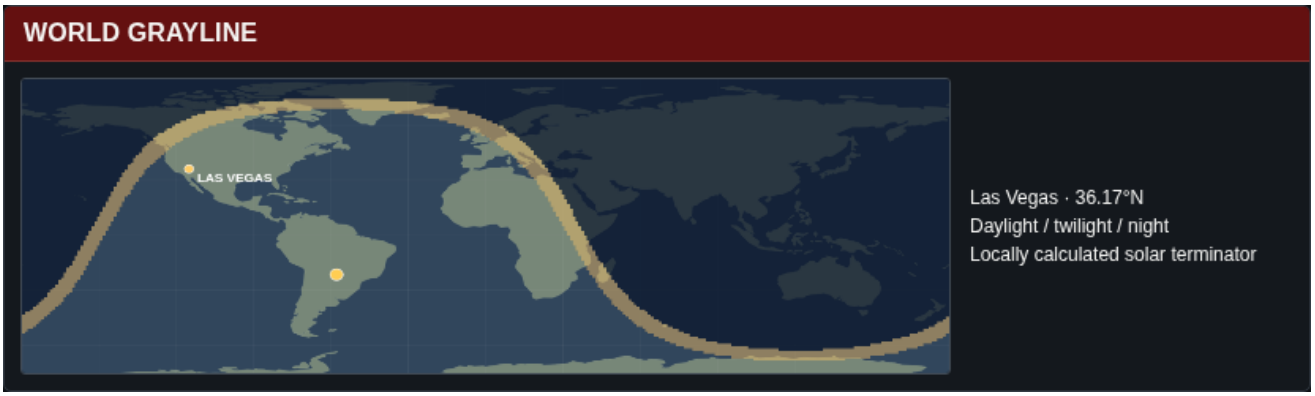



Figure 8. Daylight, twilight, and darkness on the global map.

The grayline is the transition between day and night. It can offer useful HF opportunities, especially on 40 m, 80 m, and sometimes 160 m. The map shows geometry, not measured propagation.

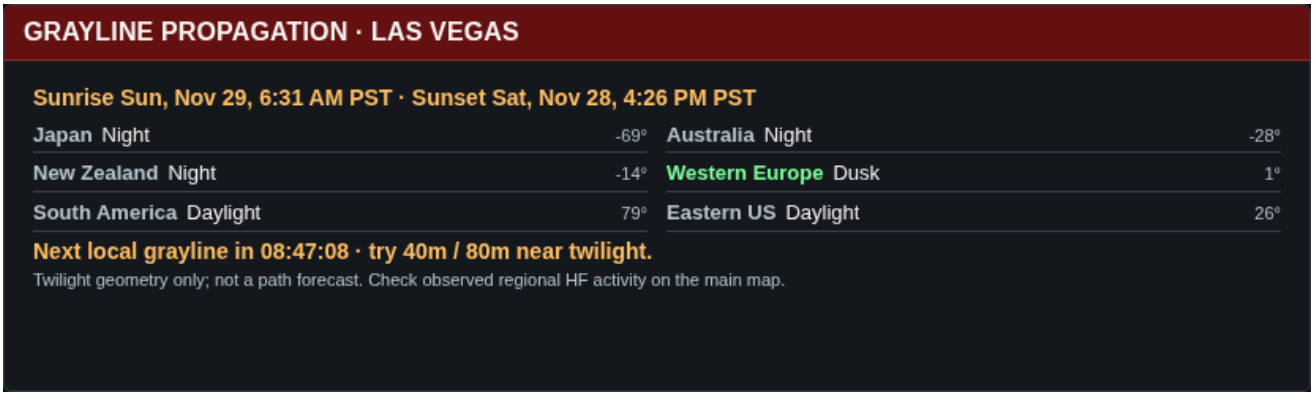



Figure 9. Sunrise/sunset times, regional twilight states, and local countdown.

Use the report to look for regions near dawn or dusk, then corroborate the opportunity with the HF reception map. Green highlights local twilight or an approaching local grayline window.

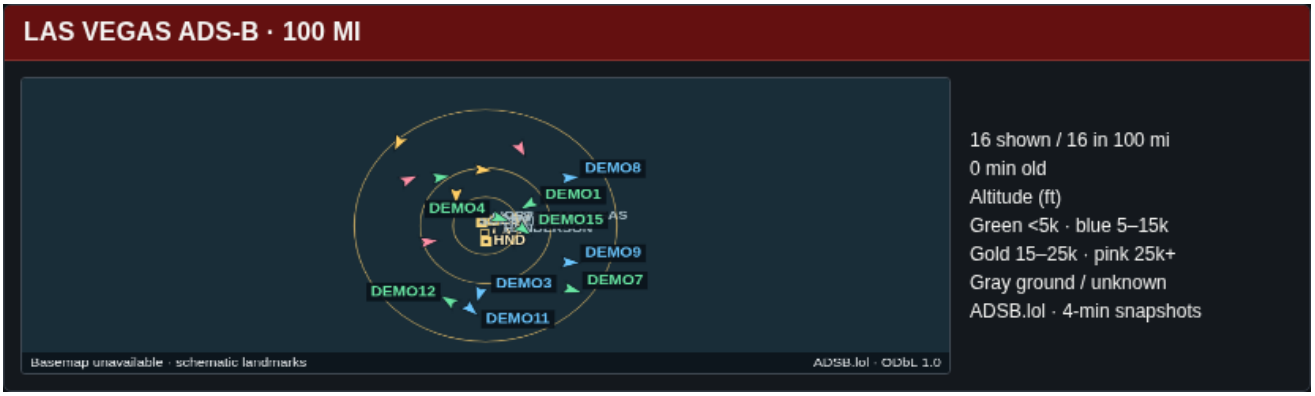



Figure 10. Example 100-mile ADS-B view; the offline rendering uses schematic landmarks rather than live USGS map tiles.

Aircraft markers are altitude-coded; hover for flight ID, altitude, and heading. Data is sampled, not a continuous radar track. The Southern Nevada Weather Radar view rotates through separately using NWS KESX imagery; check its freshness. Neither display is for navigation or safety-critical decisions.

# Find activity across modes

Three rotating screens help you locate radio traffic and member activations without guessing where everyone is operating.

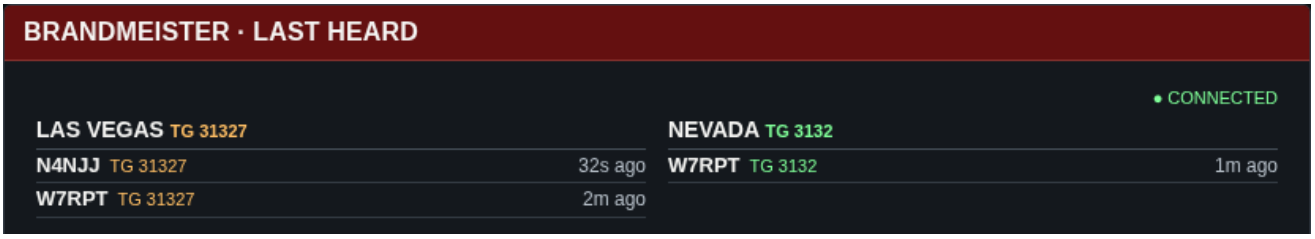



Figure 11. BrandMeister last heard: Las Vegas TG 31327 and Nevada TG 3132.

Each talkgroup shows up to five recently collected key-ups with callsign and elapsed time. Amber identifies TG 31327; green identifies TG 3132. “Connected” with an empty list means no matching activity has been collected yet, not proof of inactivity.

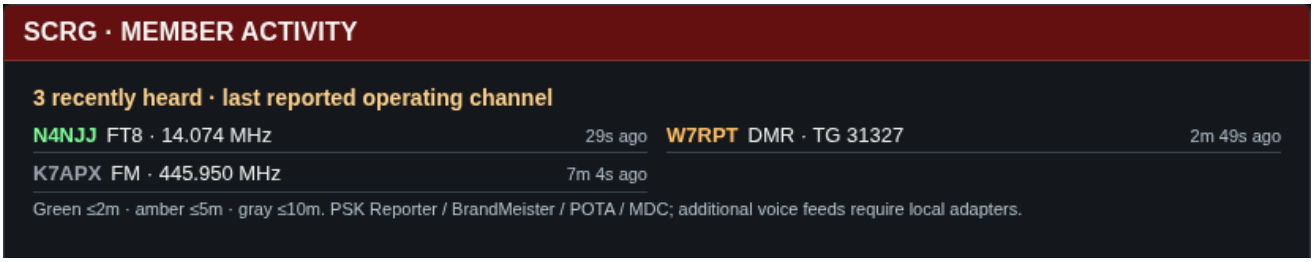



Figure 12. SCRG member activity across available radio feeds.

The most recent report per rostered member shows mode and last reported frequency, room, or talkgroup. **Green:** 0–2 minutes; **amber:** over 2–5 minutes; **gray:** over 5–10 minutes; removed after 10 minutes. PSK Reporter, BrandMeister, POTA, and MDC are integrated. P25, Fusion, and D-STAR depend on additional authorized feed adapters. Coverage is incomplete.

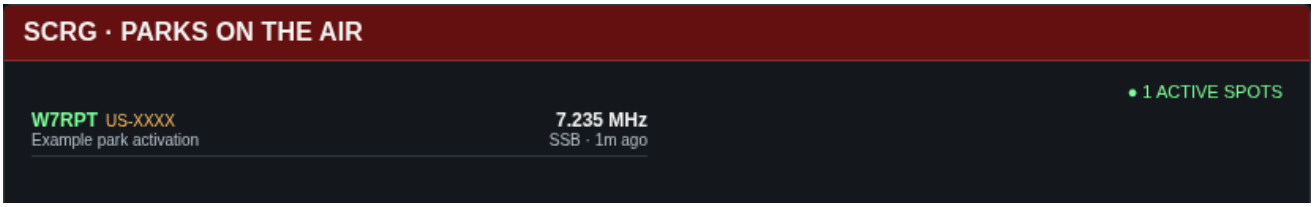



Figure 13. POTA activators filtered against the SCRG roster.

Find the member callsign, park reference, frequency, mode, and age. Only eligible member activators and the club call are intended to appear. A spot can be stale; listen before calling. No spots means no matching current reports, not necessarily no activations.

# Read alerts and status

The right column shows recent network events and public emergency-information links. The top and bottom tickers add context.

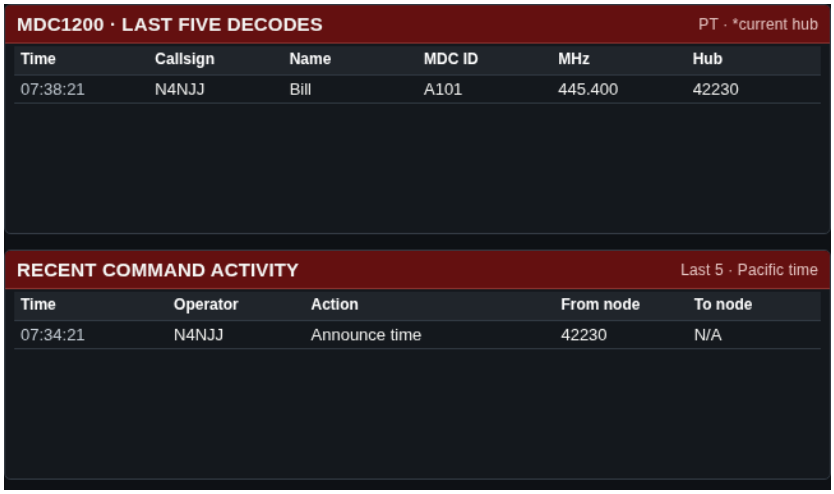



Figure 14. MDC and command tables.

### MDC1200

Last five decodes, including callsign, name if known, unit ID, frequency, and hub. An asterisk denotes current-hub inference where applicable.

### Recent commands

Last five logged actions with operator, action, and source/target nodes. Times are Pacific. Display only; no command controls.




Figure 15. Emergency panel header and external links (cropped).

**Fire & emergency:** NWS alerts and the embedded PulsePoint display. If the embed fails or is too small, use **Full-size PulsePoint**. Scanner links open external streams. Confirm emergency information through official sources; call 911 in an emergency.

### STATUS ICONS

**Bison / BARRA:** Green when the network reports a link to a configured BARRA node, red when neither hub reports a link, gray when link data is unavailable. Click for BARRA Allmon3.

**Shark:** General network monitoring health: green when both current AMI readings are healthy, red for degraded AMI, gray for stale/unavailable data.

**Egg / K6EGG:** Green live, red reported offline, gray unknown. Click for the current stream when known or Gregg's channel. Livestream discovery can lag.

> ### TWO SEPARATE TICKERS
>
> The sports ticker is in the header. The news, events, and alerts ticker runs along the bottom. See the next page for the eight teams, how to request another team, and how to read the scrolling feed.

# Follow the scores and ticker

The header sports ticker and the bottom information ticker update independently of the rotating radio screens.

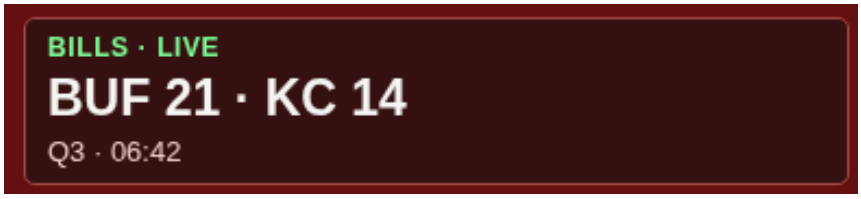



Figure 16. Example header sports card showing a live Buffalo Bills game.

## EIGHT TRACKED TEAMS

| | |
|---|---|
| **NFL** | Buffalo Bills, Las Vegas Raiders, Minnesota Vikings |
| **NHL** | Vegas Golden Knights, Buffalo Sabres |
| **MLB** | Athletics (future Las Vegas), Los Angeles Dodgers, Washington Nationals |

The ticker cycles through available teams about every eight seconds and prioritizes live games. Look for **LIVE** (score and game progress), **NEXT** (opponent and start time), or **FINAL** (recent result). Scheduled game times are Pacific. Offseason teams without relevant scheduled games may be omitted; “LAST SCORE” or “LIVE FEED DOWN” indicates a feed limitation.

## REQUEST ANOTHER MAJOR-LEAGUE TEAM

**Suggested member request process:** Send the dashboard administrator a message through the SCRG Discord or your usual club communication channel. Include your callsign, the team’s full name, and its league. The administrator checks feed availability and adds supported teams in a future dashboard update. There is no self-service team selector. Requests for leagues other than the NFL, NHL, and MLB may require additional integration.

> **EXAMPLE REQUEST**
>
> Please add the Seattle Mariners (MLB) to W7RPT Live. Callsign: [your callsign].

## BOTTOM INFORMATION TICKER




Figure 17. Scrolling local headlines, club events, and alerts (demonstration data).

The bottom ticker scrolls continuously at a target of **25 pixels per second**. It interleaves SCRG calendar events and upcoming nets with local headlines from 8 News Now and KTNV Channel 13 when available. Current weather alerts and imminent qualifying satellite passes are placed first. Event times are Pacific. Hover your mouse over the ticker to pause it; move away to resume. The ticker is informational, not a substitute for official emergency alerts.

# Make it part of your shack

Keep W7RPT Live open on a second monitor or television, and use it as a starting point for your next on-air activity.




Figure 18. Recruitment card with original SCRG photographs and ARRL Special Service Club emblem.

The gold **Join the Movement** button opens **lasvegashamradio.com/membership/**. SCRG welcomes adults 18+, with annual standard dues of $75, $40 for veterans (about 47% off), $50 for seniors (about 33% off), and free membership for non-Clark County residents.

## ROTATION AT A GLANCE

| | | | |
|---|---|---|---|
| World grayline | 8s | SCRG POTA activity | 8s |
| Amateur satellite guide | 10s | SCRG member activity | 10s |
| ISS orbital map | 8s | Grayline report | 10s |
| ADS-B aircraft | 8s | HF band conditions | 10s |
| Weather radar | 8s | Join the Movement | 15s |
| BrandMeister last heard | 8s | | |

A full cycle takes about 1 minute 43 seconds. The upper HF spotlight and header sports rotation update independently.

## IF SOMETHING LOOKS WRONG

**1.** Refresh the browser (Ctrl+F5 on Windows) if a recent update appears missing.
**2.** Look for stale, unavailable, or empty feed messages. An empty panel is not proof that nobody is operating.
**3.** Report persistent problems to SCRG with the panel name, local time, and a screenshot. Do not share passwords or API keys.

### READY TO GET ON THE AIR?

Open W7RPT Live, pick an active band or an upcoming net, and make a contact. The dashboard is most useful when it leads to actual operating.