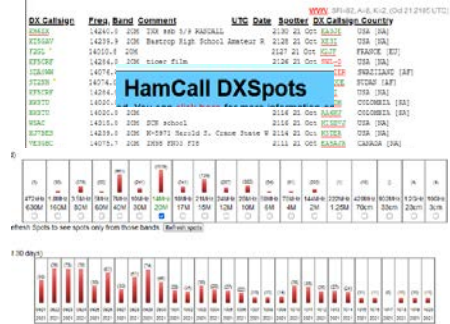


PROPAGATION CHEAT SHEET - WB5ANN's List of Essential Radio Propagation Tools

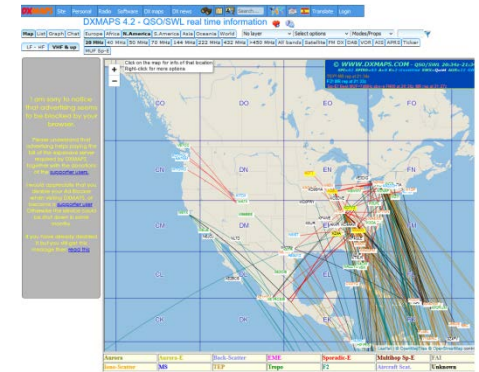
<https://hamcall.net/>

Primarily HF DX spot map with activity bar chart by band. Go-to taskbar link



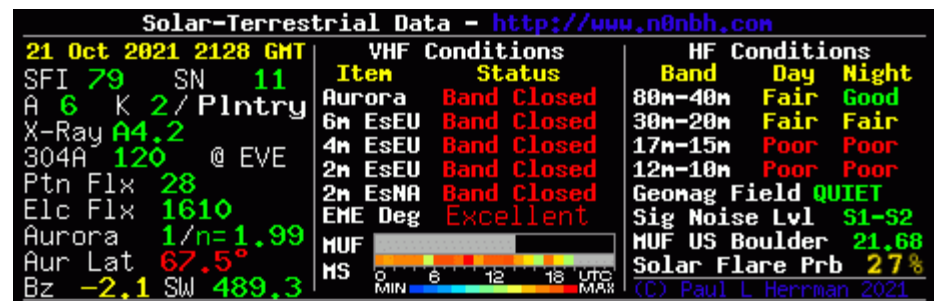
<https://www.dxmaps.com/spots/map.php?Lan=E>

HF/VHF/UHF Map based DX spots with lines connecting contacts with propagation type. - Go-to taskbar link.



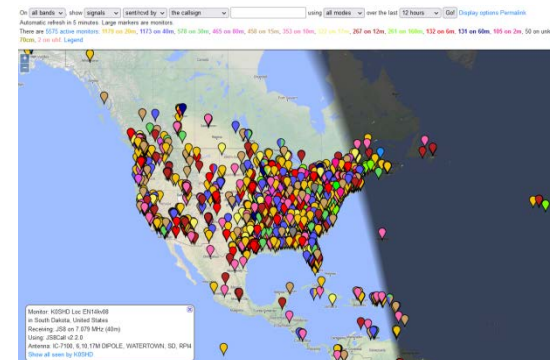
<https://www.hamqsl.com/solar.html>

Solar Terrestrial Data – Numerous links



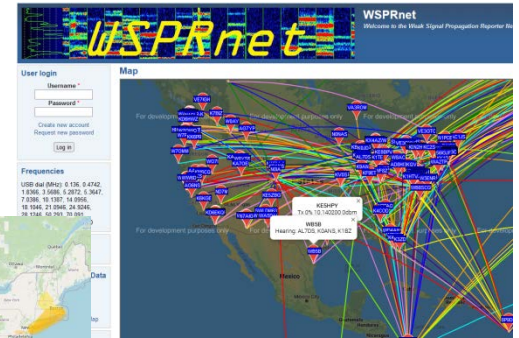
<https://pskreporter.info/pskmap.html>

PSK Reporter - Automated spot map for digital.

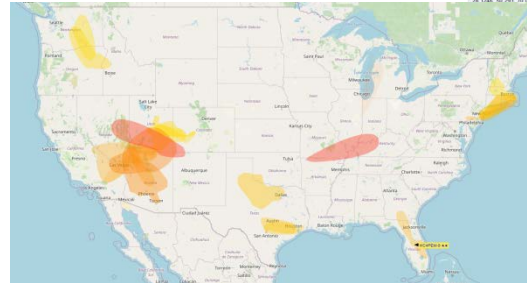


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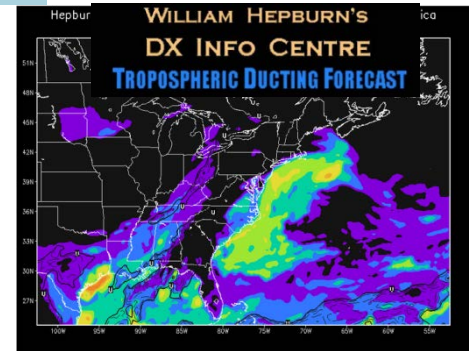
<https://www.wsprnet.org/drupal/wsprnet/map> Digital based weak signal reporting. Primarily HF.



<http://aprs.mennolink.org/> APRS based VHF Propagation. Shows propagation based on APRS signals on 2 meters.



<https://www.dxinfocentre.com/tropo.html> Tropospheric ducting forecast. VHF/UHF & 28 MHz atmospheric ducting. Used in conjunction with APRS propagation map above.



<https://www.voacap.com/hf/> VOACAP Online – Defacto propagation tool for point to point and regional propagation forecasts.

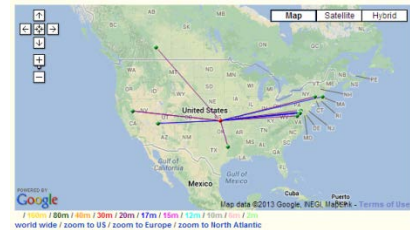


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<https://hamwaves.com/propagation/en/index.html> Hamwave links to just about everything about space weather and propagation.

The screenshot shows the hamwaves.com website interface. It features a navigation menu with categories like 'MF & Lower HF', 'Space Weather', and 'Higher HF'. The main content area includes sections for 'Real-Time Maximum M3000 Frequency', 'Critical Freq, Sporadic E, M3000', 'NVIS/DX Conditions < 10 MHz', 'Space Weather Alerts', 'Atmospheric Noise', and 'DX Propagation Predictions > 5 MHz'. A central banner for 'hamwaves.com' lists services for 'amateur radio', 'information technology', and 'electromagnetic wave propagation'. The website is credited to Serge Stroussard, O8AAA, and is located in Moulins, Auvergne, France.

<http://www.reversebeacon.net/main.php> Signal reports from beacons on various frequencies. A number of sites have reverse beacons spot reports.



<http://kiwisdr.com/public/> Extensive online software defined radio from DC to 160 meters.

The screenshot shows the kiwisdr.com website interface, which is a software-defined radio (SDR) application. It features a waterfall view of the radio spectrum, a frequency display, and various controls for tuning and recording. The interface is titled 'Welcome to the KIWI-FM WDRP-0204' and includes a 'PLEASE READ' section with important information. The interface is designed for use in a web browser and includes a 'Logbook' section for recording contacts.