

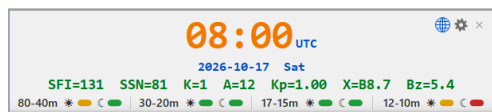
IonoWatch by DL6ZB

See where your signal goes.

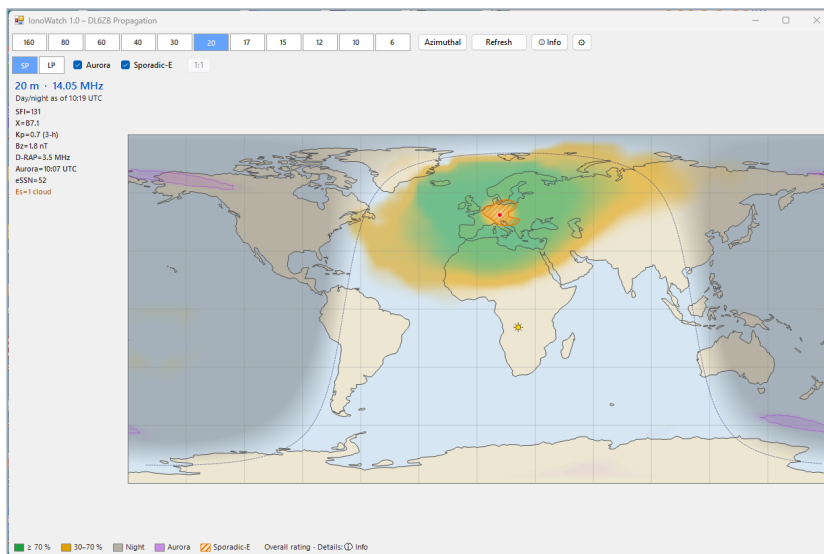
FREEWARE FOR RADIO AMATEURS · WINDOWS

UTC clock and worldwide HF propagation map (ITU-R P.533)

VERSION 1.0 – FREEWARE

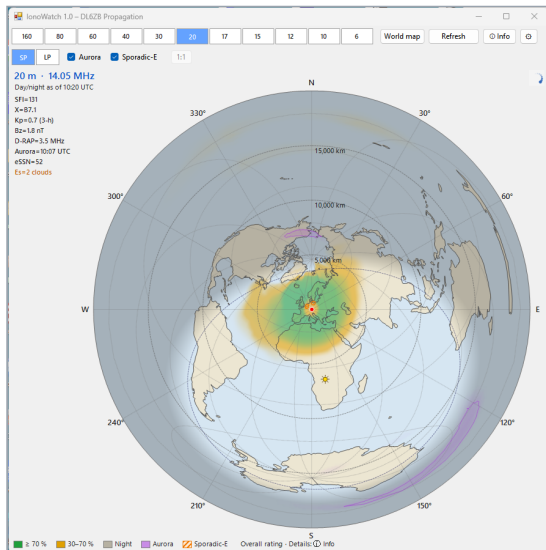


Real screenshots, IonoWatch 1.0 at DL6ZB (JN58), 20 m, October 17, 2026. Map data: KC2G, NOAA SWPC.



Key features

- **UTC clock window** – large orange UTC time, date, solar data line (SFI, SSN, K, A, Kp, X-ray, Bz from hamqsl.com and NOAA SWPC) and band-condition pills.
- **Worldwide HF propagation map** per band, 160–6 m, based on ITU-R P.533 (ITURHFProp), short and long path.
- **Aurora and Sporadic-E overlay**, world map or azimuthal view centred on your QTH.
- **Calibrated with live data** from the Reverse Beacon Network, WSPR (wspr.live) and PSK Reporter. The map also shows the RBN skimmers that heard your own CQ.
- **Settings** for power, antenna gain and accuracy; English or German user interface.
- **Works with DXLab** – takes callsign and locator from DXLab and reads the frequency from DXLab Commander. It never transmits and does not control the transceiver.
- An own CW Skimmer can improve accuracy but is not required.



Azimuthal view, 20 m. Data: KC2G, NOAA SWPC.

Settings

Callsign

DL6ZB

☒ take from DXLab

Locator

JN58up

☒ take from DXLab

Power

LOW (100 W)

Antenna

Omnidirectional 3 dBi (dipole, wire antenna)

Accuracy

Fast (15°, default)

Skimmer display

10 min

Sprache / Language

English

☐ Show skimmers closer than 2000 km only when zoomed in

With DXLab, callsign and locator are taken over automatically and can be overridden here.

OK

Cancel

Settings: callsign, locator, power, antenna, accuracy, language.

Requirements

System	Windows 10/11 with .NET Framework 4.x
Installation	None – unzip the folder and start IonoWatch.exe; no admin rights
Internet	Required. On first start IonoWatch downloads the ITU-R data files from the official ITU-R GitHub and cty.dat from country-files.com
Recommended	DXLab Suite (callsign, locator, frequency)
Optional	Own CW Skimmer via telnet

Feedback welcome

Test reports, screenshots and comparisons with your own observations are very welcome: dl6zb@dl6zb.de. IonoWatch is freeware; the source code will be published later.

OWN RISK · SERVERS

Use at your own risk; propagation forecasts can be wrong; not for safety-critical use. IonoWatch connects to external servers (prop.kc2g.com, services.swpc.noaa.gov, www.hamqsl.com, db1.wspr.live, mqtt.pskreporter.info, telnet/beta.reversebeacon.net, www.country-files.com, raw.githubusercontent.com). Your callsign is sent to the RBN, your approximate location to wspr.live. Nothing is sent to the author. Details: LEGAL.txt and the user manual.

DOWNLOAD

<https://www.dl6zb.de/projects/ionowatch.html>

Freeware for non-commercial use. Redistribution only free of charge as the complete, unmodified package. Names such as DXLab or CW Skimmer are used only to state compatibility.

DL6ZB

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