

USING NØNBH « SOLAR DATA » BANNER

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SOLAR-TERRESTRIAL DATA

SFI: Solar Flux Index (2800 MHz – 10,7 cm) • 60↔300 • A higher Index means higher (and more favourable) ionisation and MUF • Correlated with SN.

SN: Sunspot Number • 0↔≥250 • The higher the number, the more favourable HF propagation is • Correlated with SFI.

A: 24-hour planetary geomagnetic indicator • 0↔400 • The higher the index, the more the HF propagation is degraded.

K: 3-hour planetary geomagnetic Indicator • 1↔9 • The higher the index, the more the HF propagation is degraded.

X-Ray: X-ray level • A, B, C, M, X • The higher the index, the more the absorption conditions (D layer) exist and degrade HF propagation.

304A: Relative intensity of solar UV measured at wavelength 304 angstrom (30.4 nm) • Average low ≈134↔Average high ≈200 • The higher the number, the more favourable HF propagation is.

@SEM: Satellite instrument (GOES) giving measurement 304A.

Pf: Proton density (Proton Flux) in the solar wind (SW) • 0↔∞ • The higher the index, the more the absorption conditions (D layer) exist and degrade HF propagation • Average flow measured under calm conditions ≈10.

Ef: Electron density (Electron Flux) in the solar wind (SW) • <1↔>1000 • The higher the index, the more the absorption conditions (D layer) exist and degrade HF propagation.

Aurora: Aurora probability (N/n = x) • N : 1↔10.

Bz: Orientation of the Interplanetary Magnetic Field • 50↔-50 • A negative value indicates a weakness of the Earth's magnetosphere in relation to solar wind particles.

SW: Solar wind • Varies in speed and temperature • 300↔800↔1500 km/sec • The stronger the solar wind, the more it influences the ionosphere negatively.

HF CONDITIONS

Band Day Night: Estimated HF general conditions Day/Night • PoorFairGood.

VHF CONDITIONS

Aur Lat: Estimation of the global lowest auroral latitude • Calculated value from 67.5 to <45.0.

Aurora: Auroral event reported by DX-Robot •

Closed High LAT AUR = auroral activity ≥ latitude 60° MID LAT AUR = auroral activity between latitude 60° et 30°.

EsEU/NA: Europe/North America E-sporadic conditions reported by DX-Robot •

Band Closed High MUF = Conditions rising 50MHz Es and/or 70MHz Es and/or 144MHz Es = band reported open via Es.

EME Deg: Index of degradation of Earth-Moon-Earth bounce reported by Make-More-Miles •

Very PoorPoorFairGoodExcellent.

Solar Flare Prb: Probability of coronal mass ejection within 24 hours computed by Bradford University • 0↔100%.

MUF: Maximum Usable Frequency related to layer E (Es) reported by Make-More-Miles • Color-coded 24-hour progressive band indicating the theoretically accessible band: grey = inactive ; blue = 6m ; green = 4m, yellow = possibly 2m ; red = 2m.

MS: Probability of Meteor-Scatter reported by Make-More-Miles • Color-coded 24-hour progressive band indicating the probability according to time (Min/Max color code under the banner) • Grey = no MS condition.

Geomag Field

Geomag Field: General calculated state of the Earth's magnetic field:

InactiveVery quietQuietUnsettledActiveMinor stormMajor stormSevere stormExtreme storm.

Sig Noise Lvl: Computed background noise • S1↔S9.

MUF US BOULDER: Reported MUF in Boulder (Colorado, USA) • NoRpt = no report.