

ENAMS

Electrical Noise Area Measurement System

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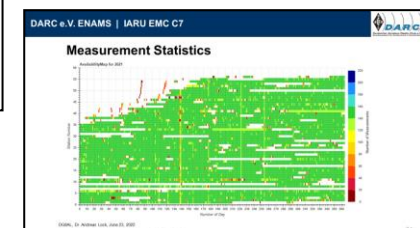
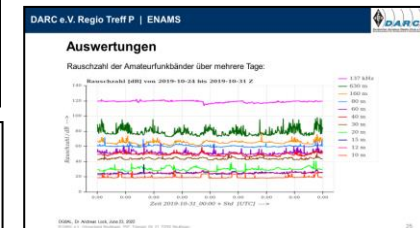
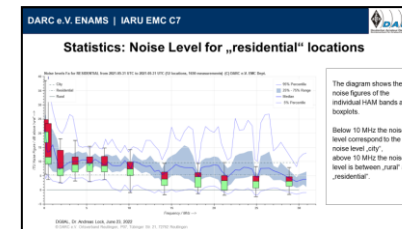
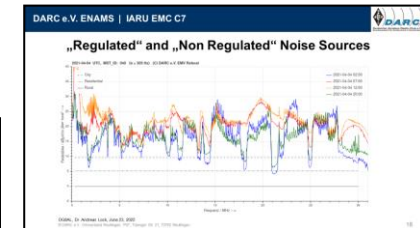
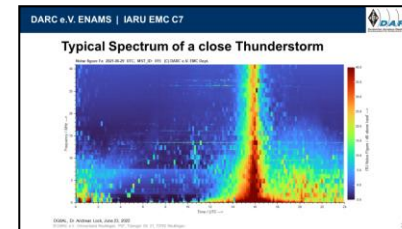
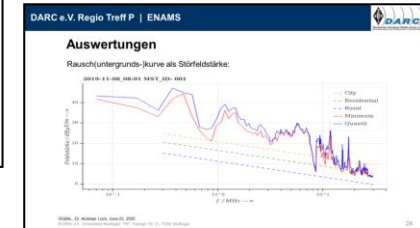
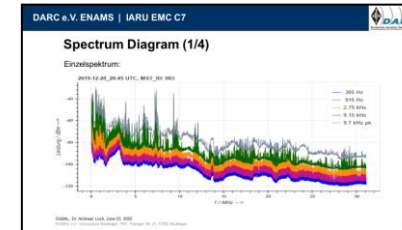
Christian Entsfellner, DL3MBG

Jochen Dreier, DH6SBN



ENAMS Diagrammarten

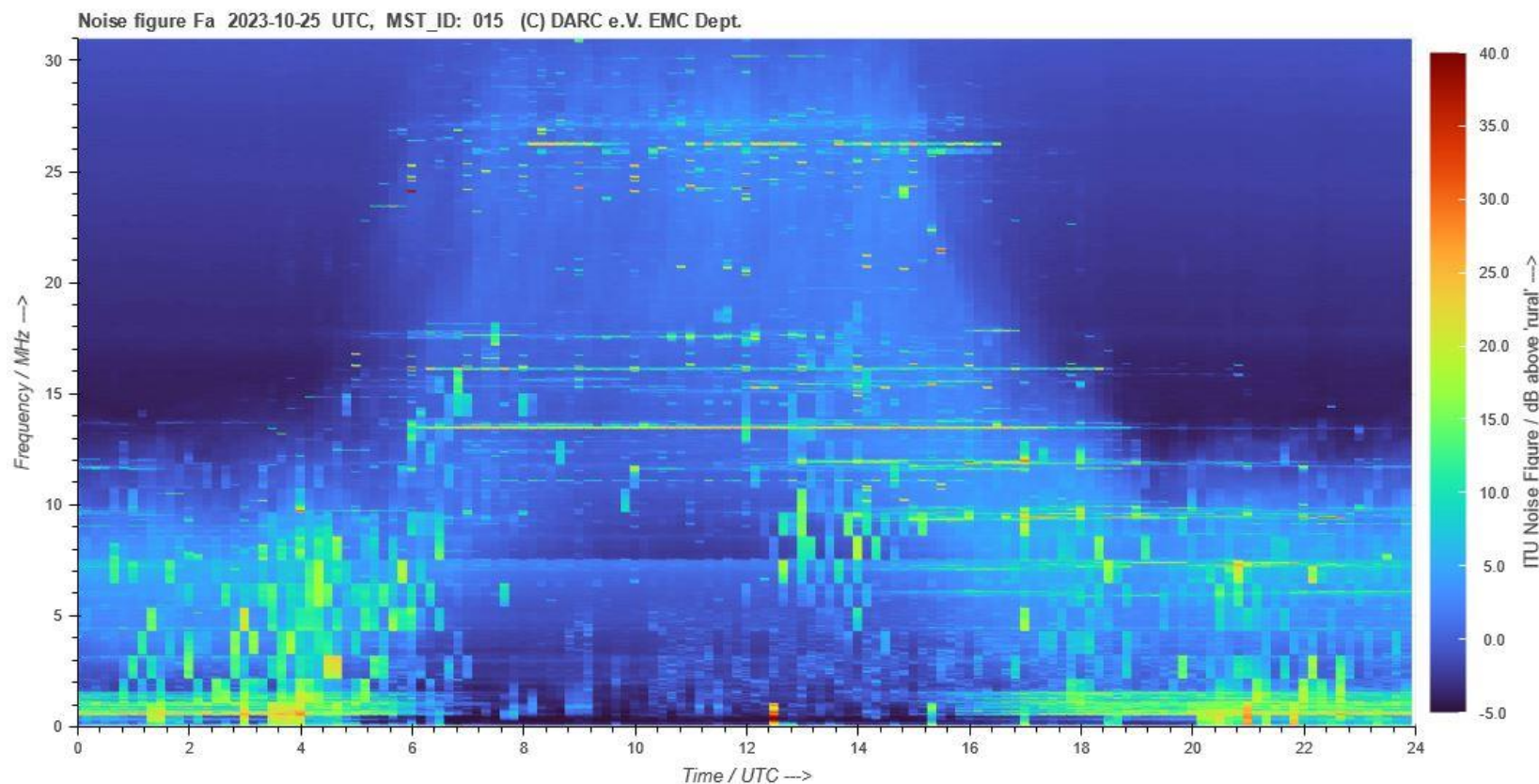
1. Leistungsdichte Diagramm
2. Feldstärke-Diagramm
3. Rauschuntergrunddiagramme
 - a. Einzelkurve
 - b. Mehrfachkurven: 4 pro Tag, 7 am Abend
 - c. Mehrfachkurven: 4 x 6, Abdeckung der 24 Std
4. HeatMap (144 Messungen pro Tag, 3D Plot)
5. Zeitreihen
6. Statistische Auswertungen
7. Diagnose / Betriebsüberwachung:
 - a. Übersicht über DCF77 & DCF49 Signale
 - b. Zahl der Messungen pro Tag und Station



Standort ITU “rural”



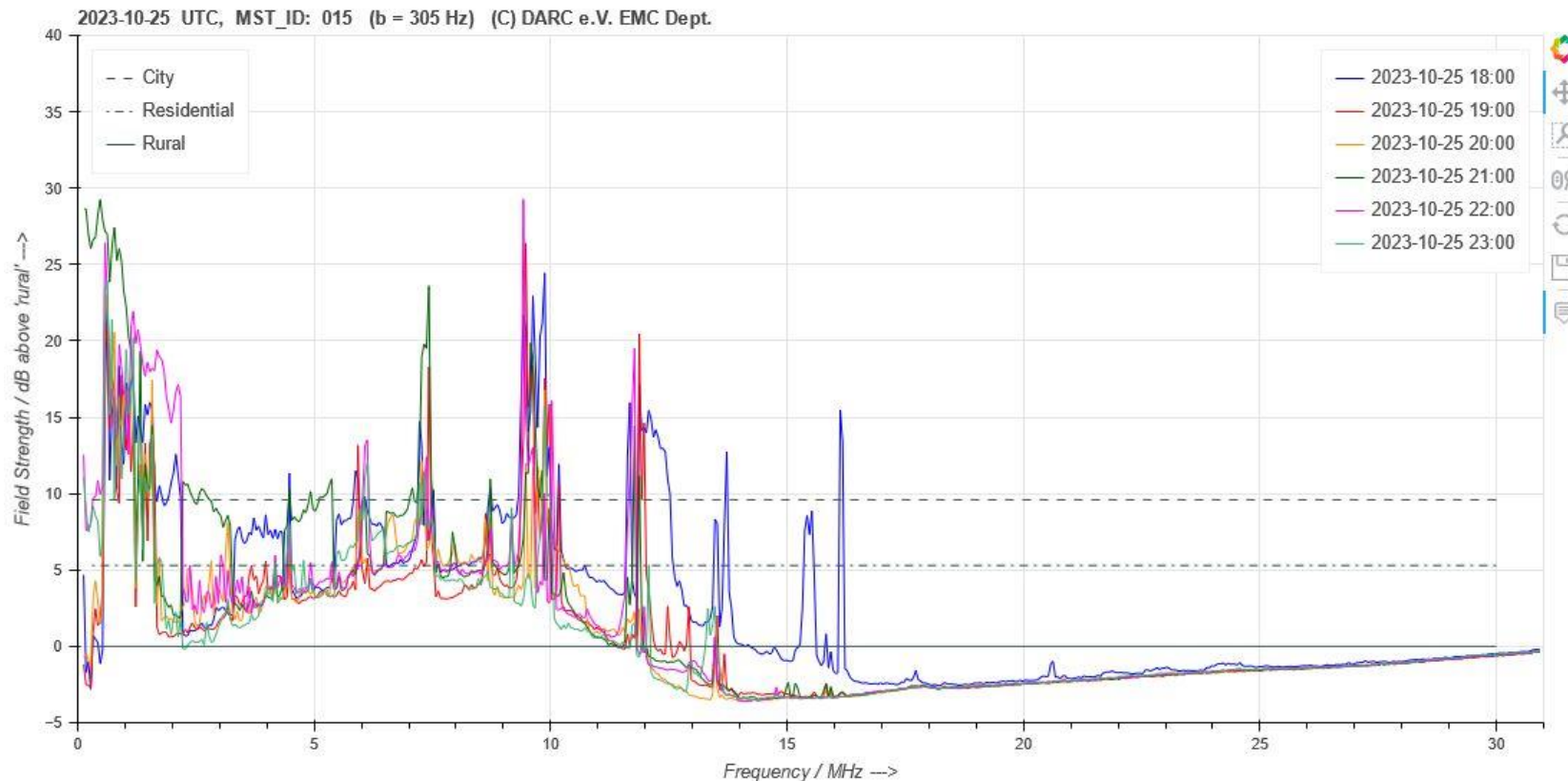
Typical rural station Landshut #15



HM015_2023-10-25

Standort ITU “rural”

Same rural station noisefloor evening

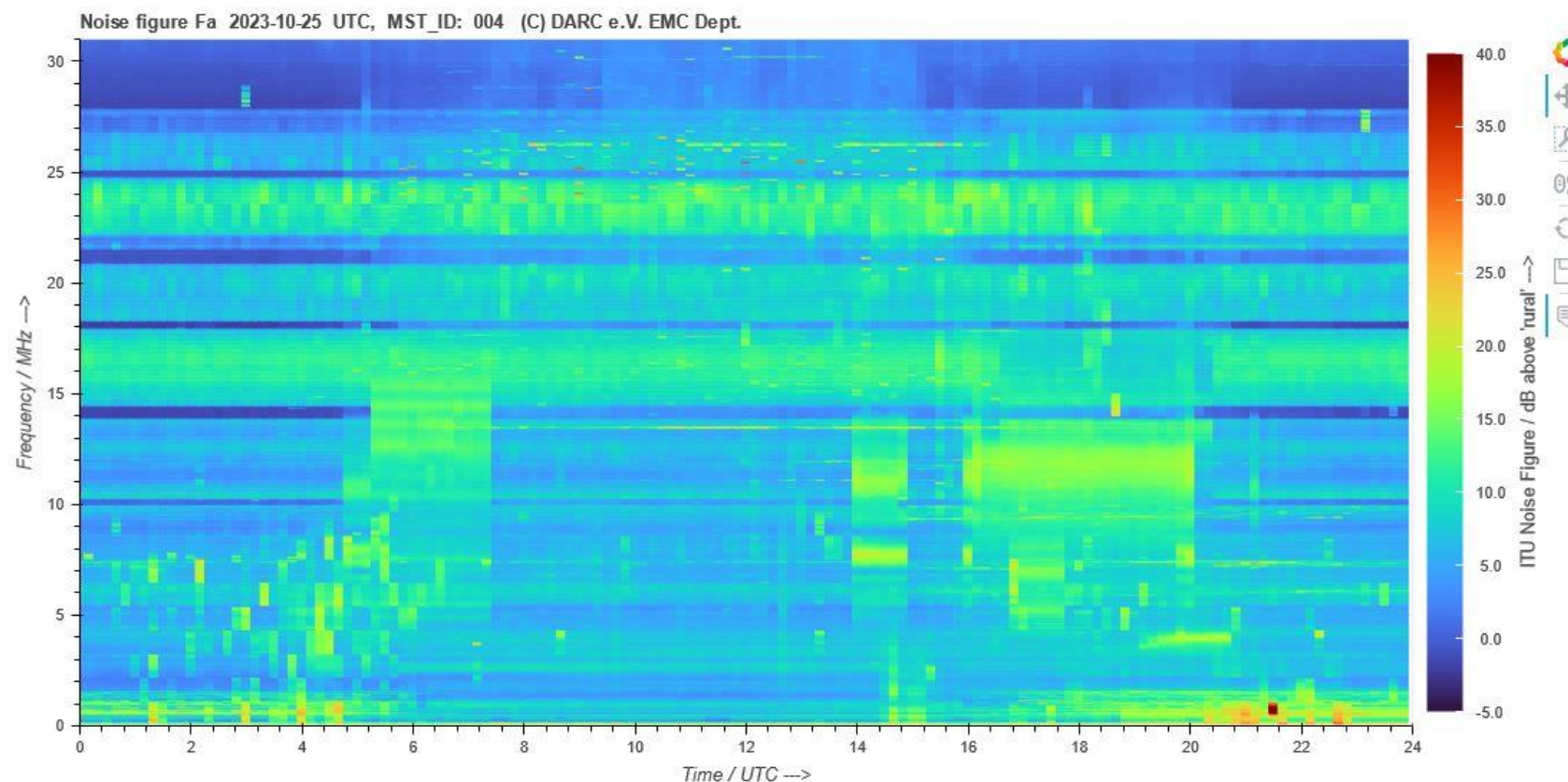


NFN64015_2023-10-25

Rauschuntergrund für Standorte ITU „residential“



Typical residential station Weissenhorn #04

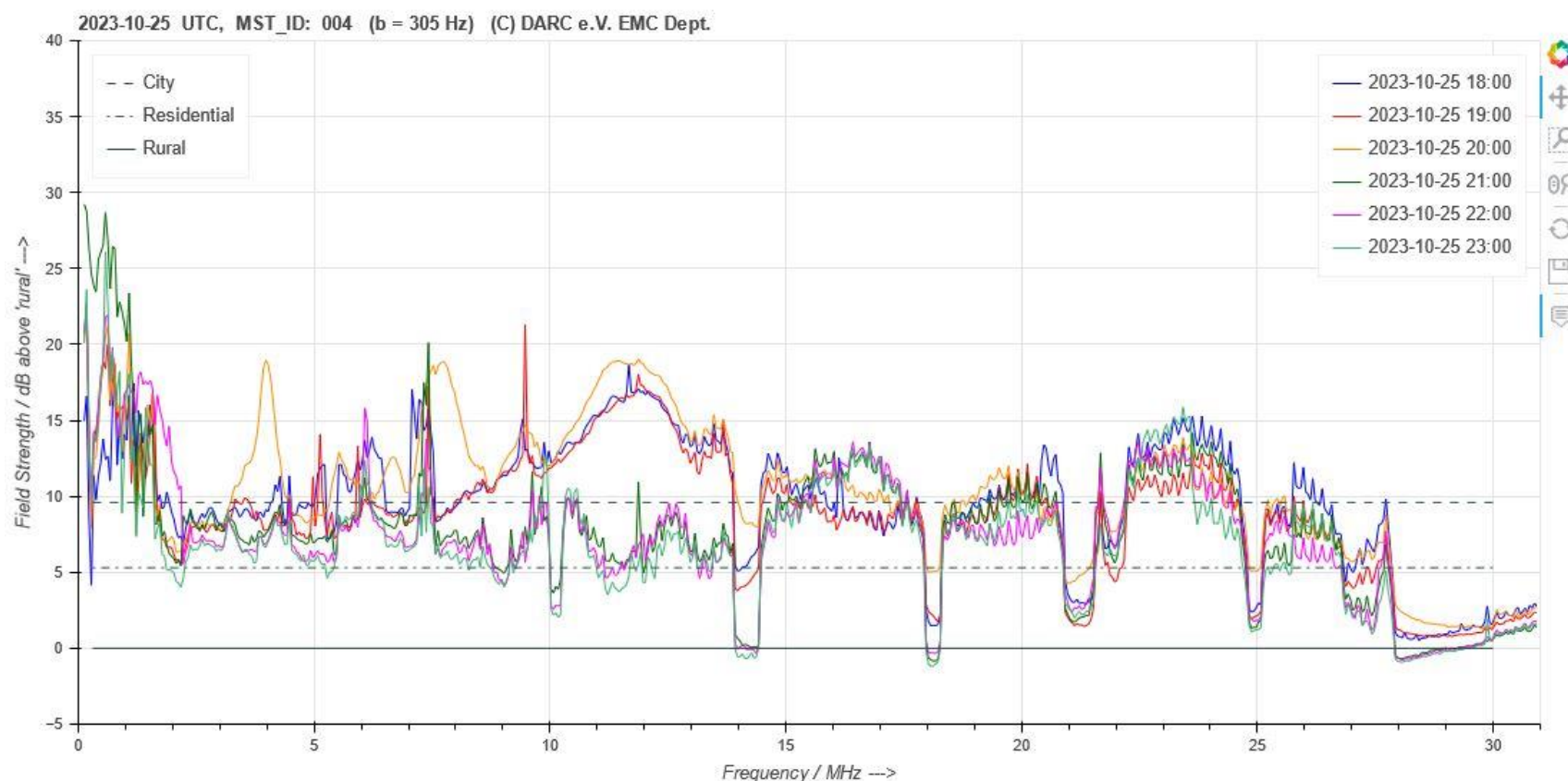


HM004_2023-10-25

Rauschuntergrund für Standorte ITU „residential“



Same residential station noisefloor evening

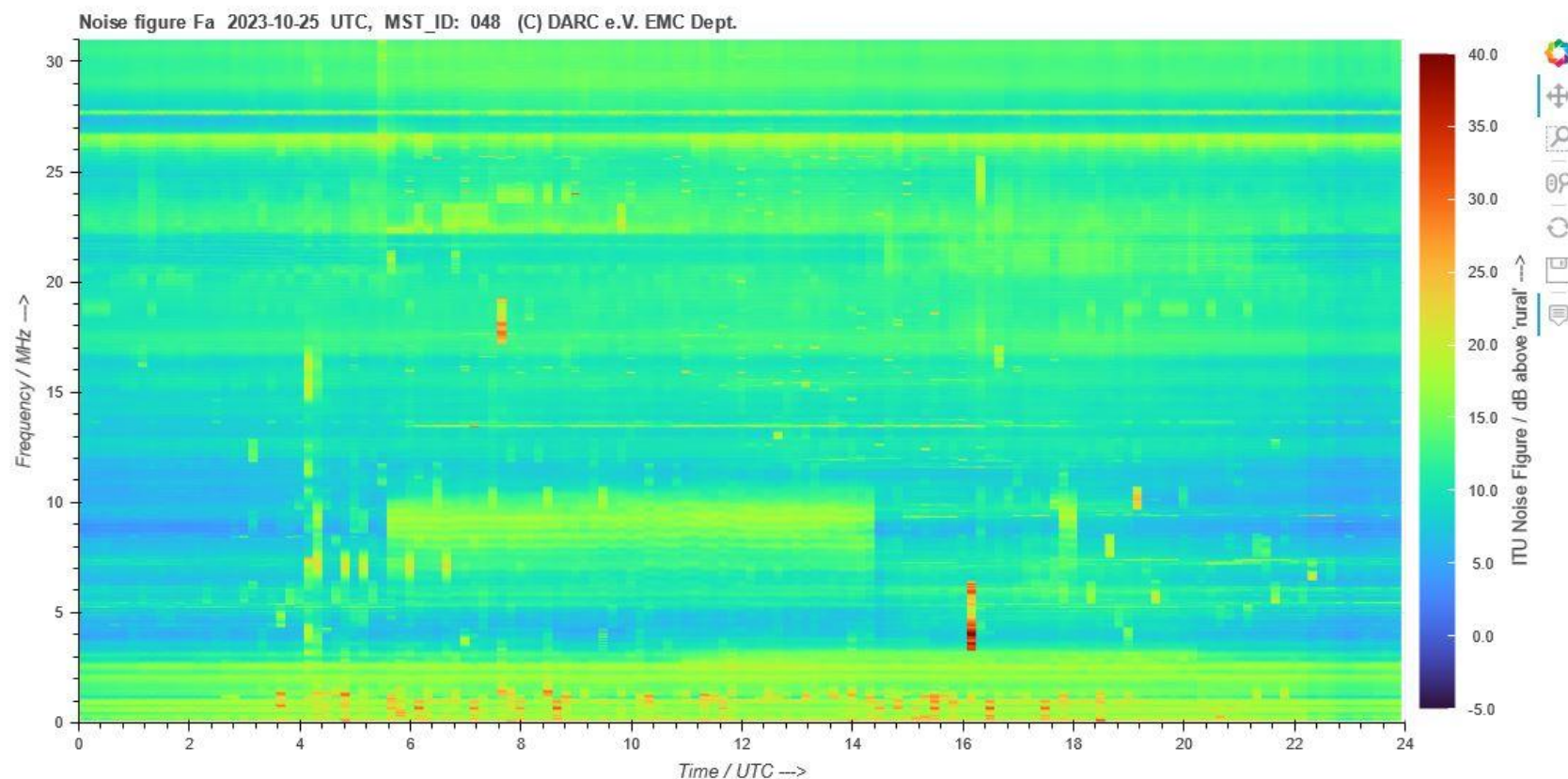


NFN62004_2023-10-25

Standorte ITU “city”

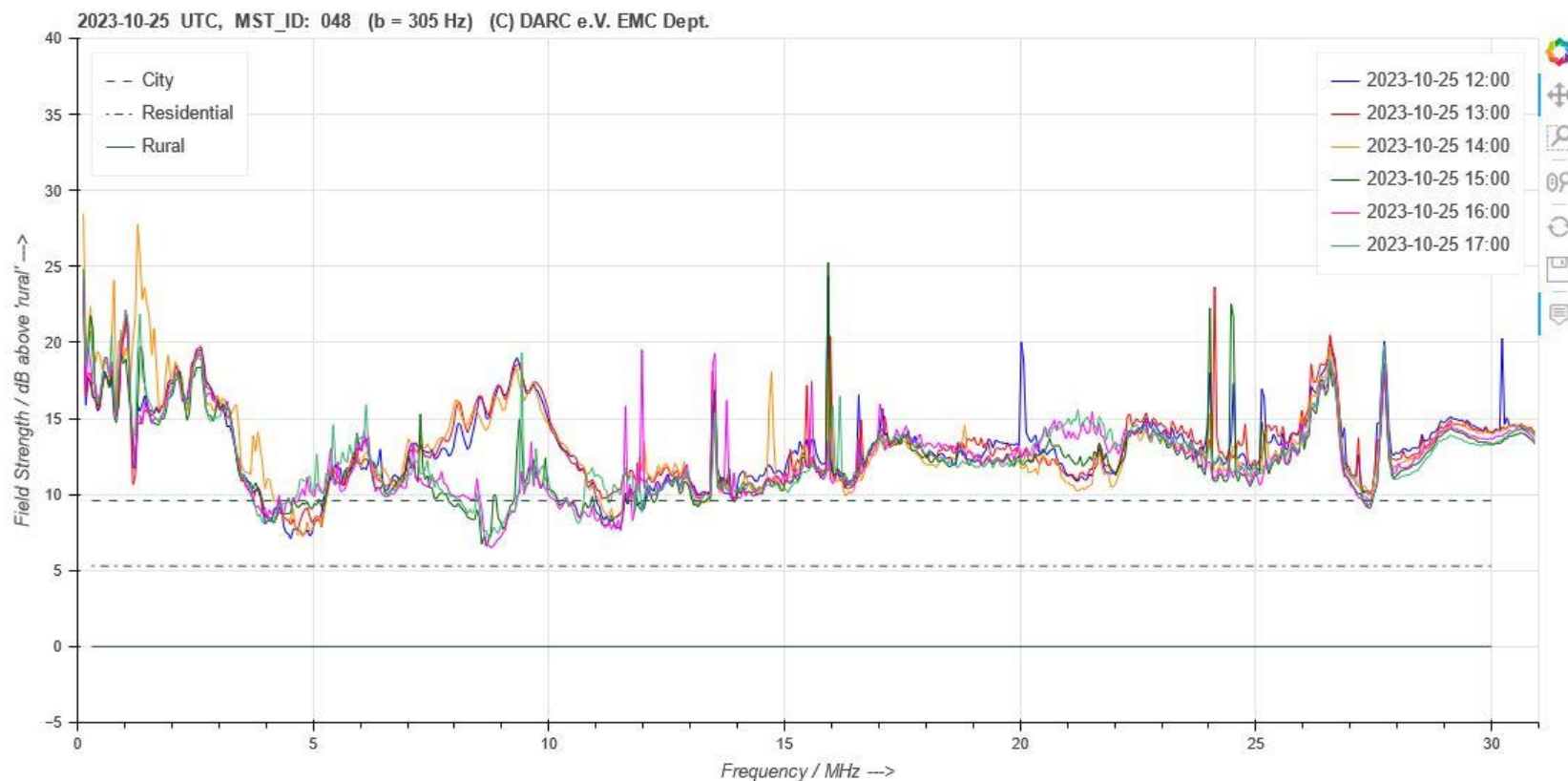


Typical city Cottbus #48



HM048_2023-10-25

Cottbus city station noise floor afternoon

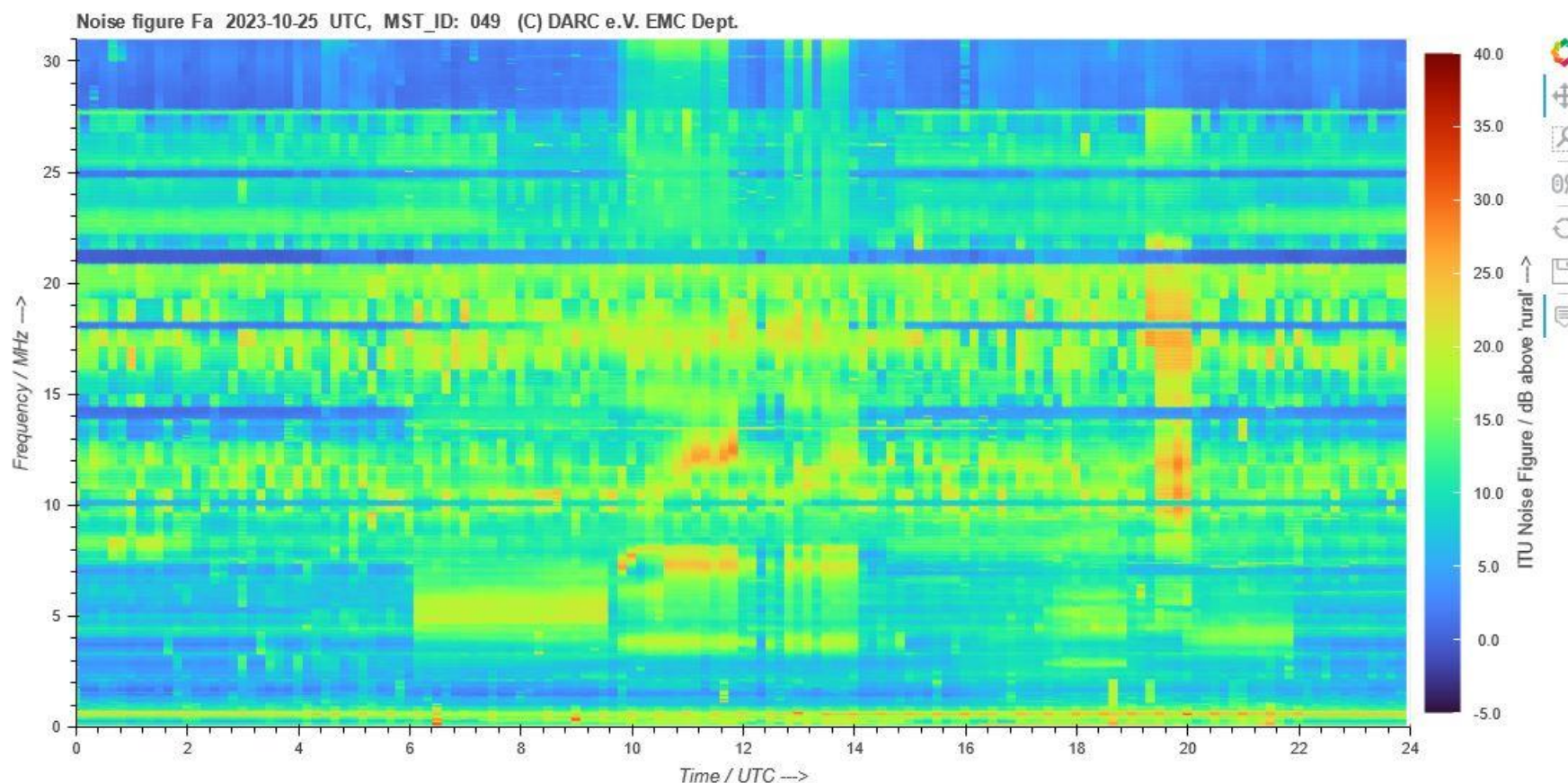


NFN63048_2023-10-25

Standorte ITU “city”



Other city station Munich #49

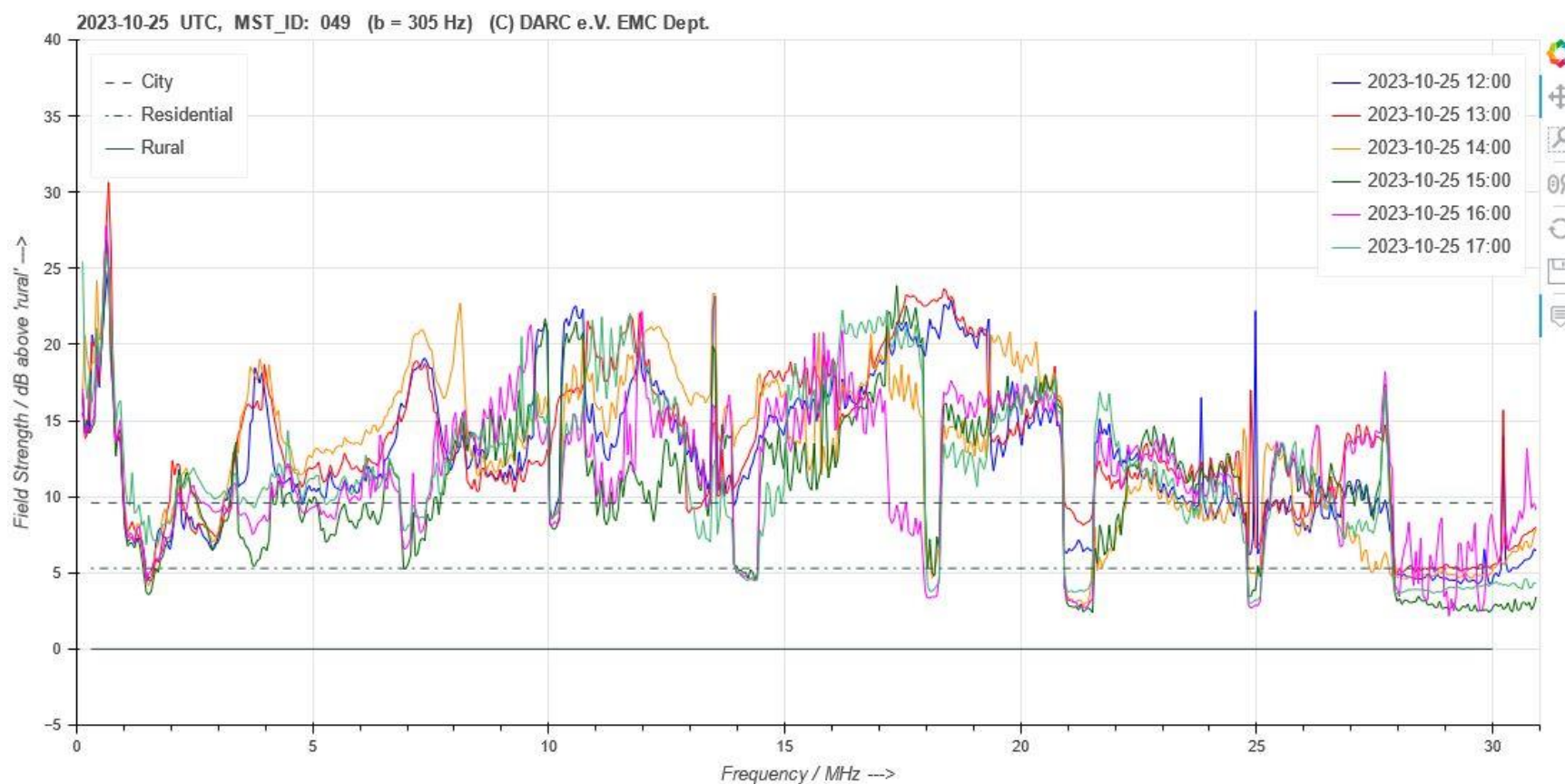


HM049_2023-10-25

Standorte ITU “city”



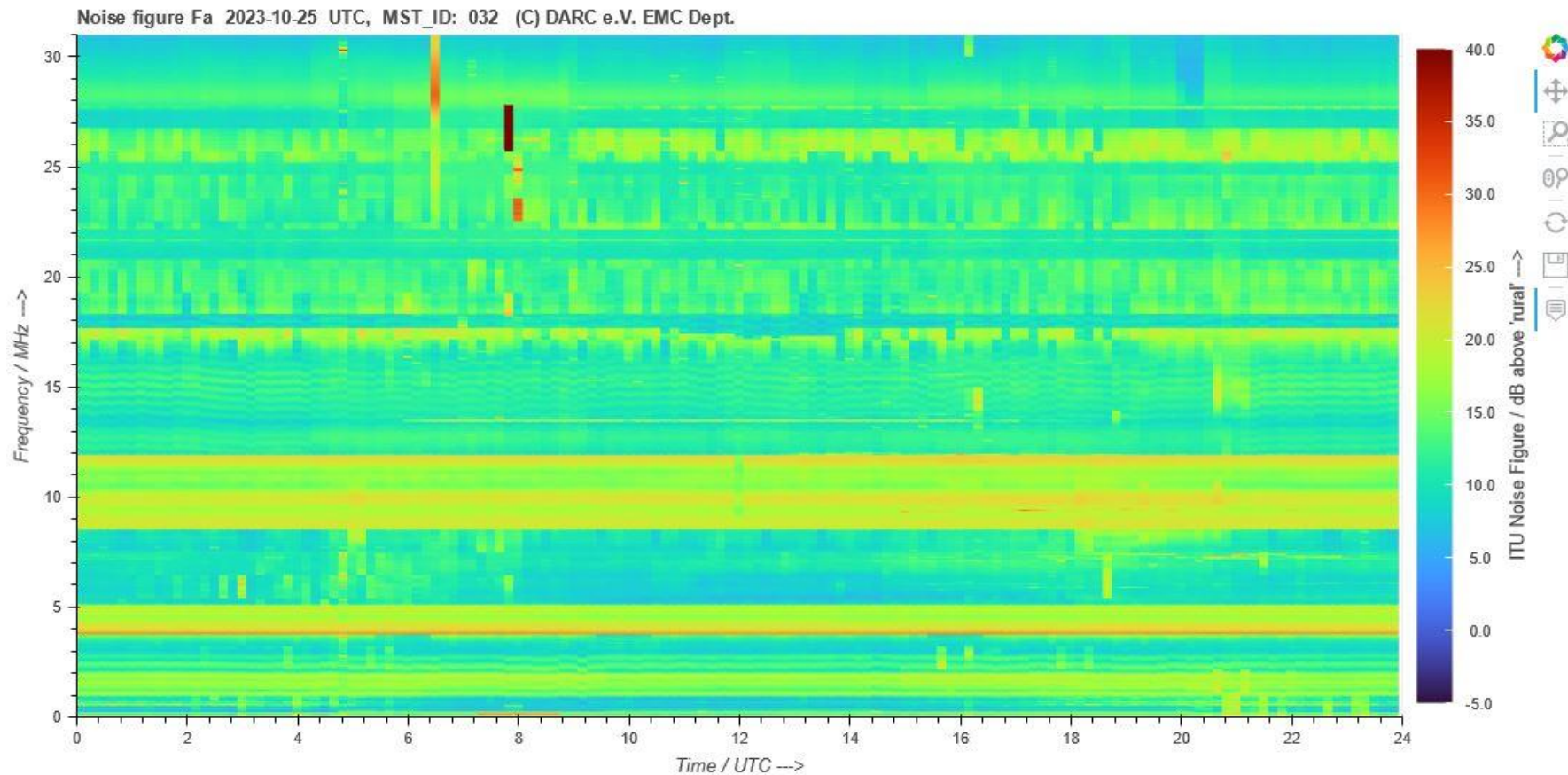
Munic city station noisefloor afternoon



NFN63049_2023-10-25

Interferenzen durch VDSL

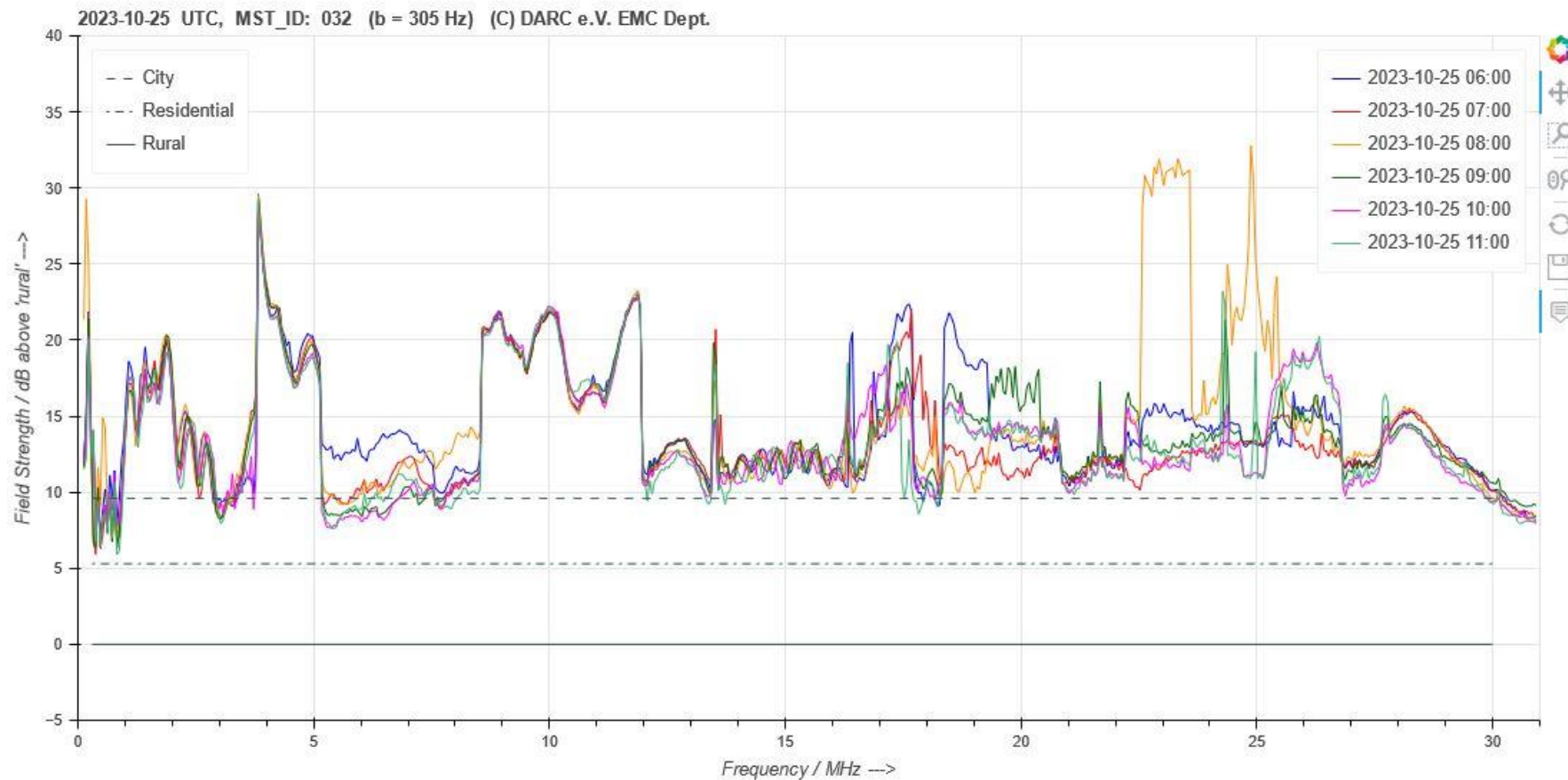
Interferer VDSL Dresden #32



HM032_2023-10-25

Interferenzen durch VDSL

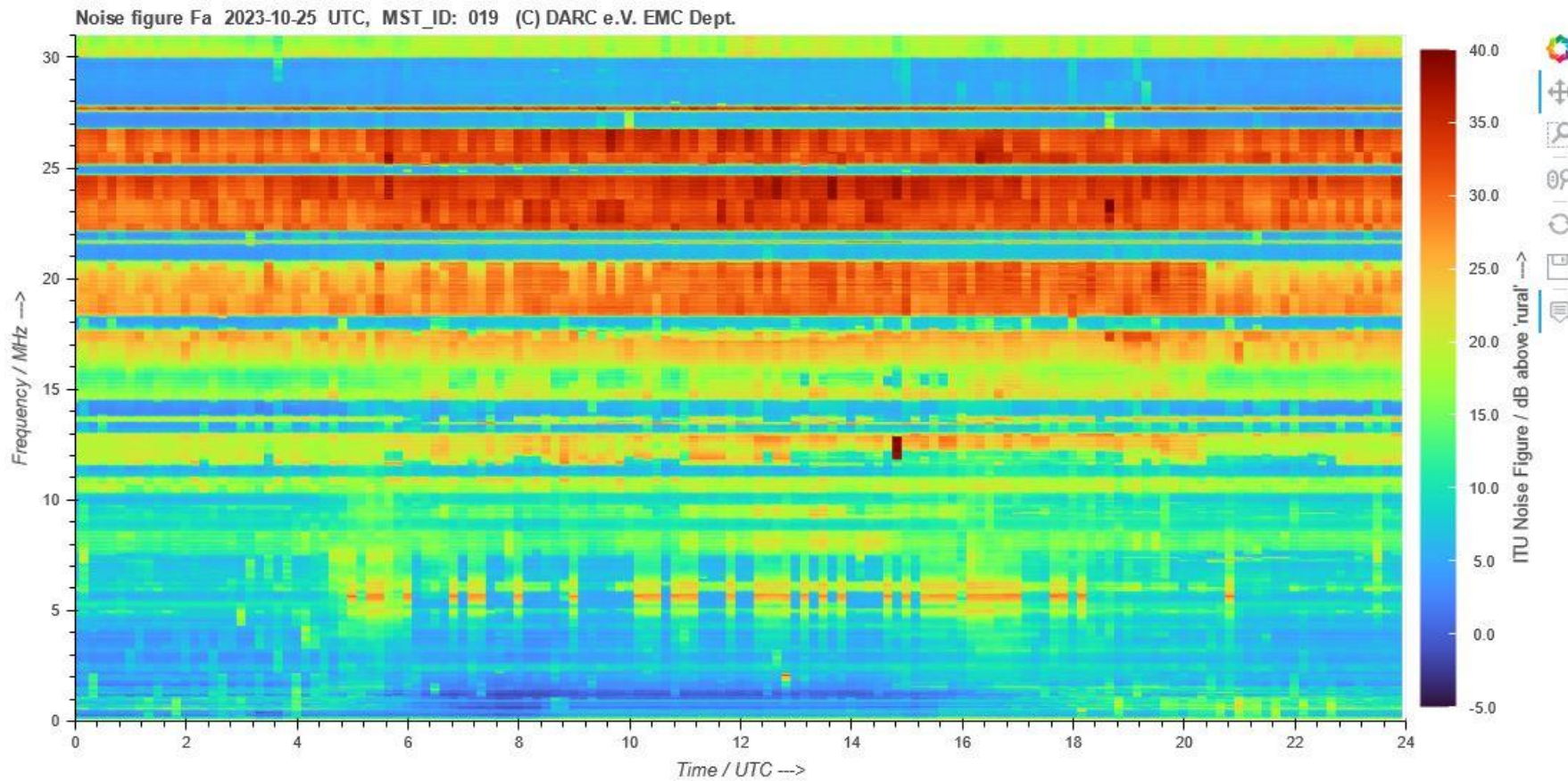
Same VDSL noise floor Dresden #32



NFN62032_2023-10-25

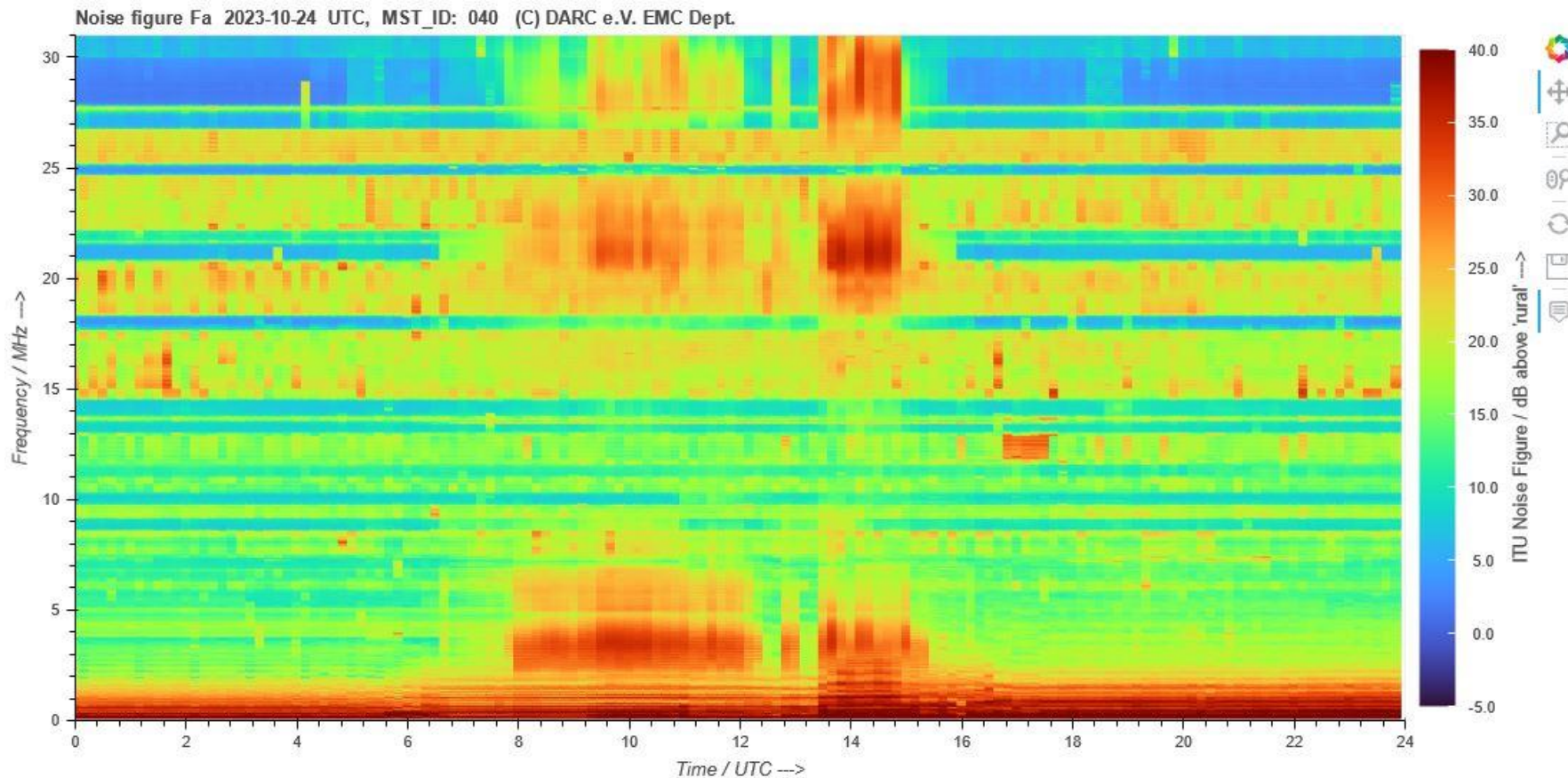
Interferenzen durch PLC

Interferer PLC Burgau #19



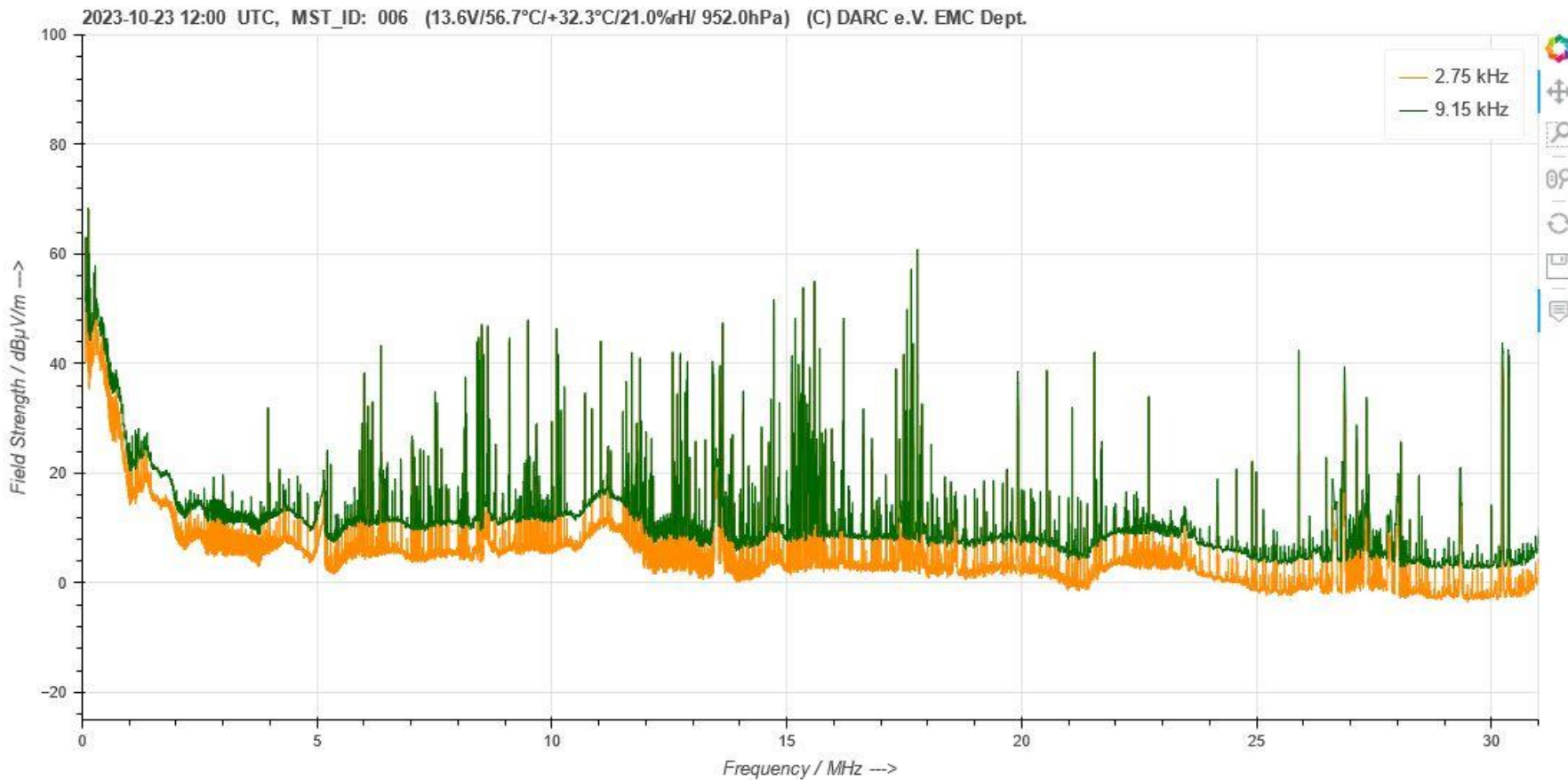
HM019_2023-10-25

Interferer PV installation Bonn #40



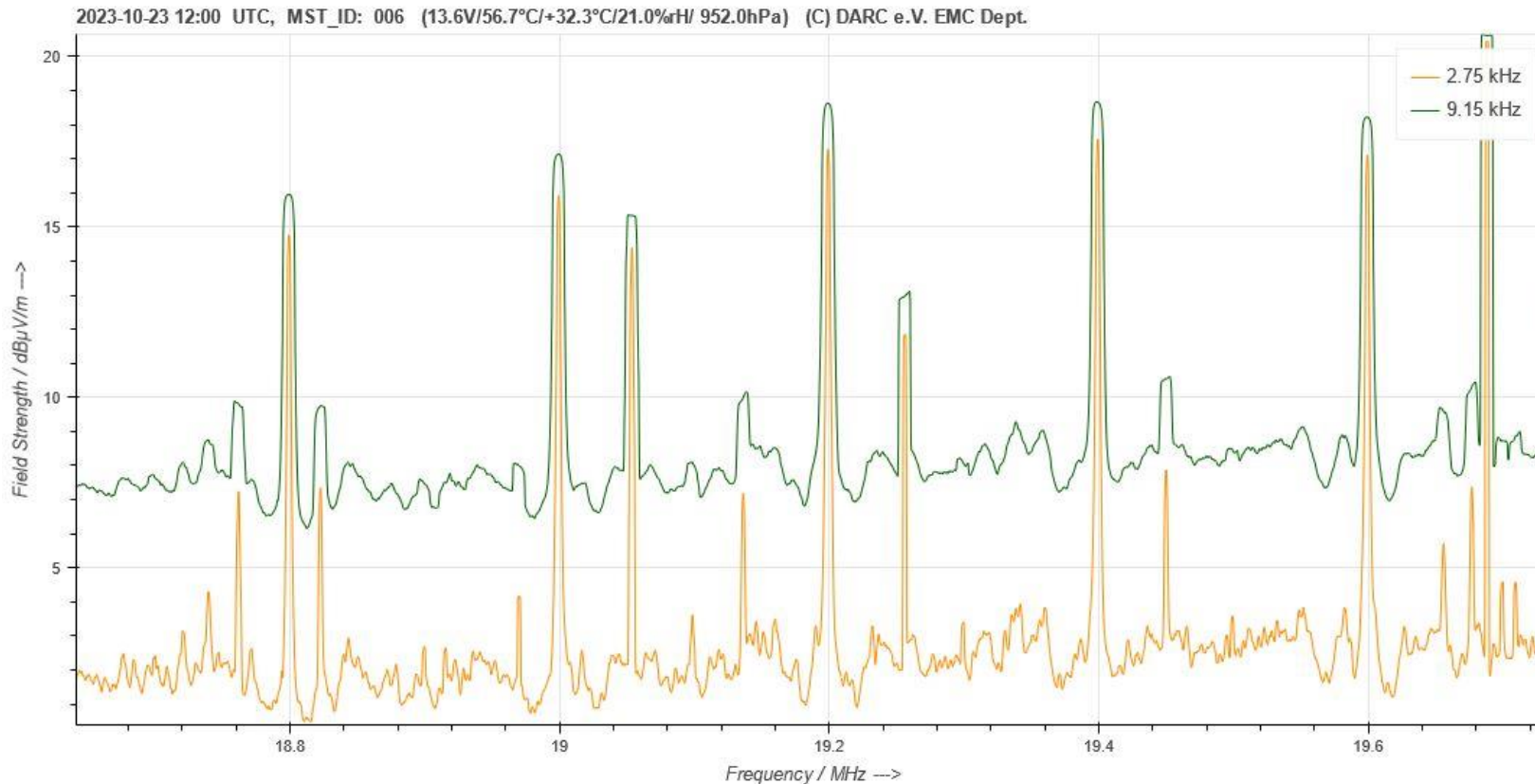
HM040_2023-10-24

Interferer solar optimizer Weissenhorn #06



S006_2023-10-23

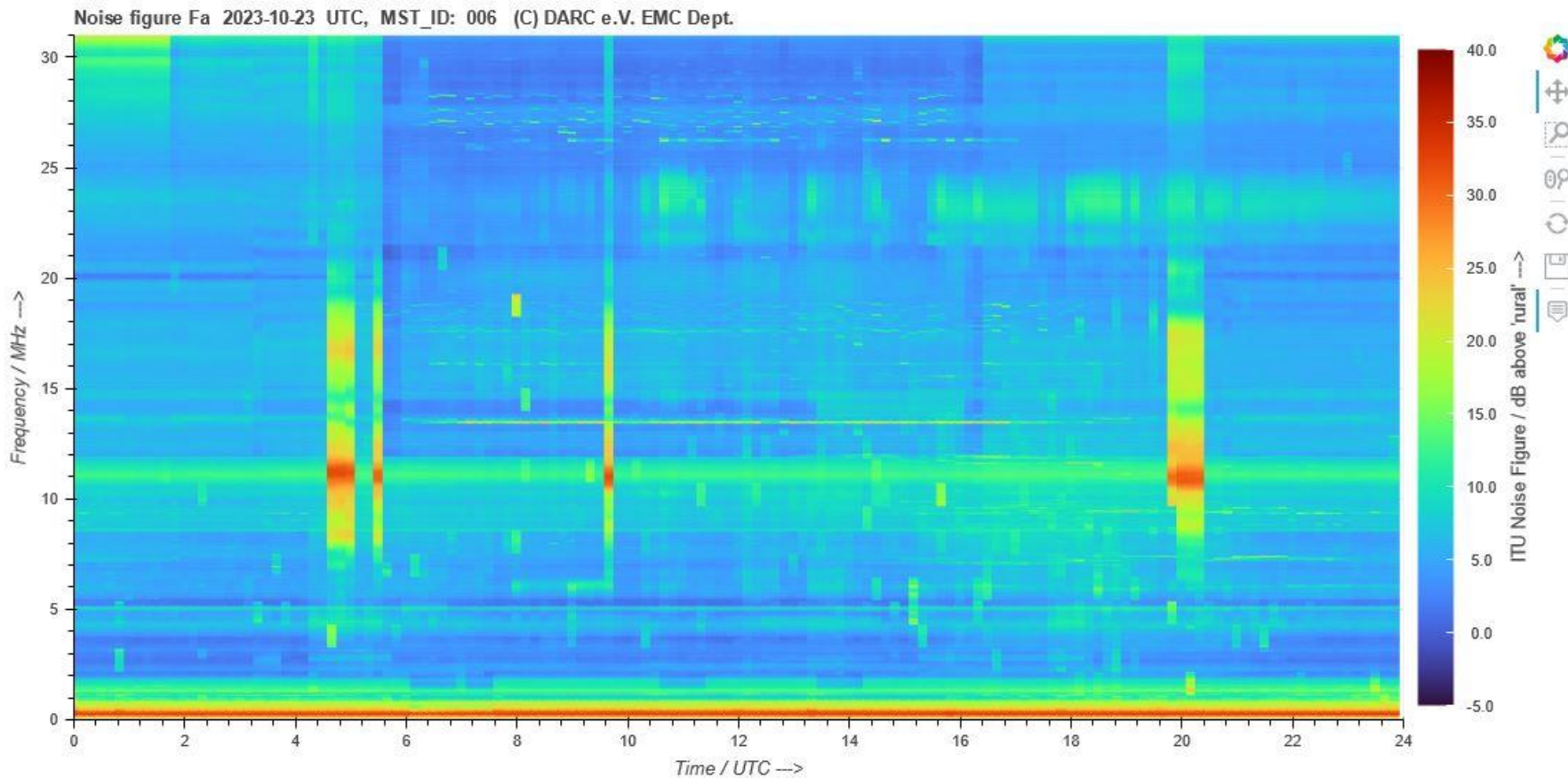
Interferer solar optimizer Weissenhorn #06 details



S006_2023-10-23

Interferenzen durch LEDs

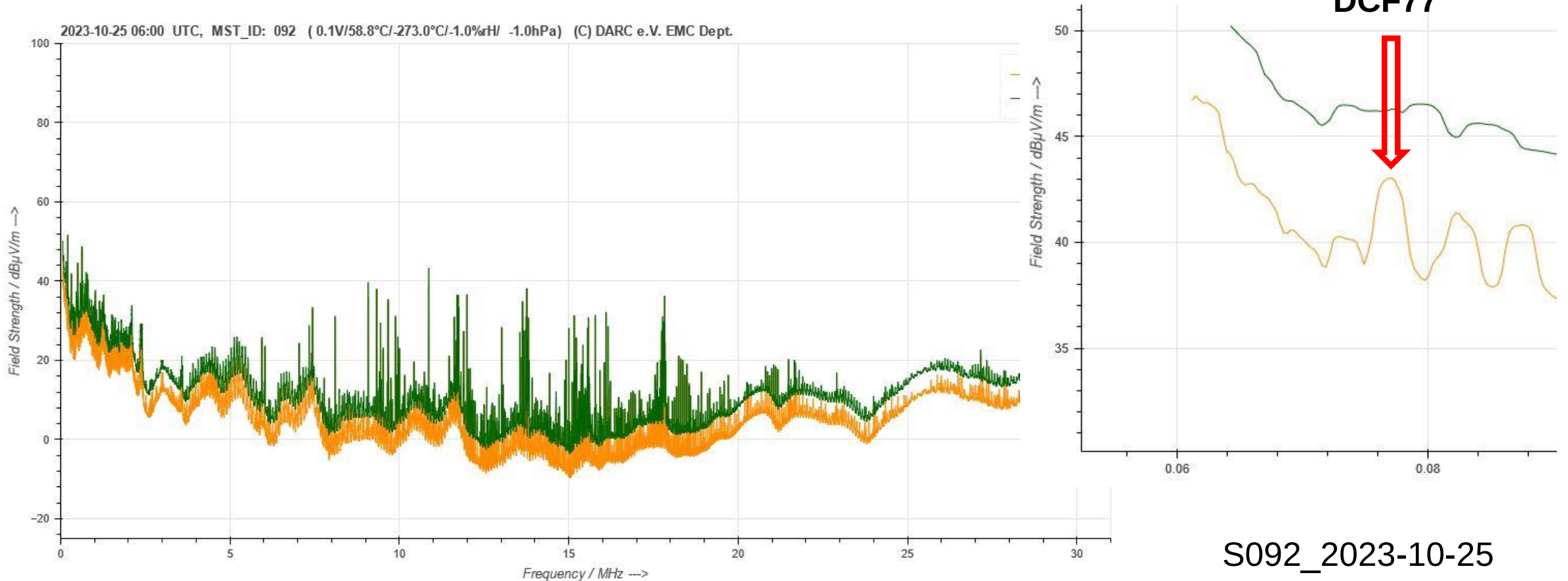
Interferer LED street lamp



HM006_2023-10-23

Was man sonst noch sieht

Antarctic station Neumayer III



Vielen Dank für die Aufmerksamkeit !

