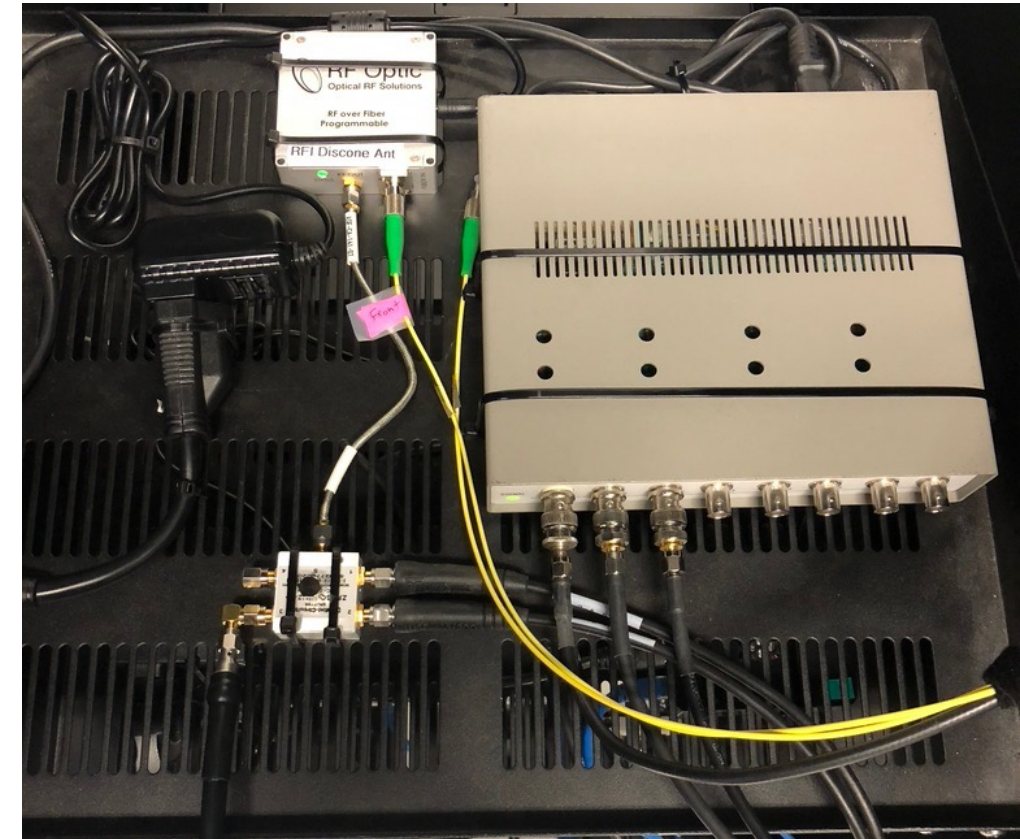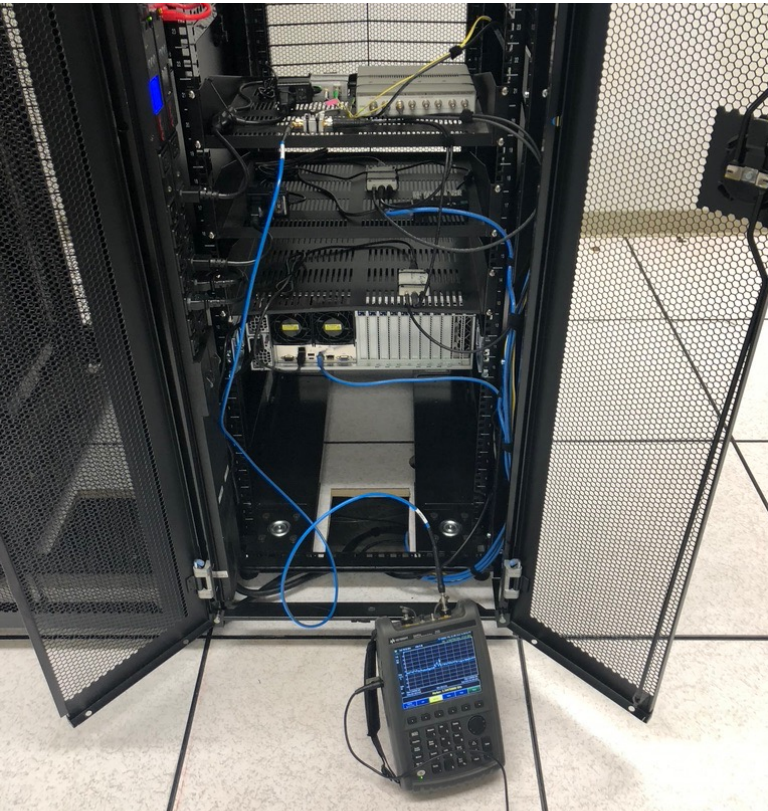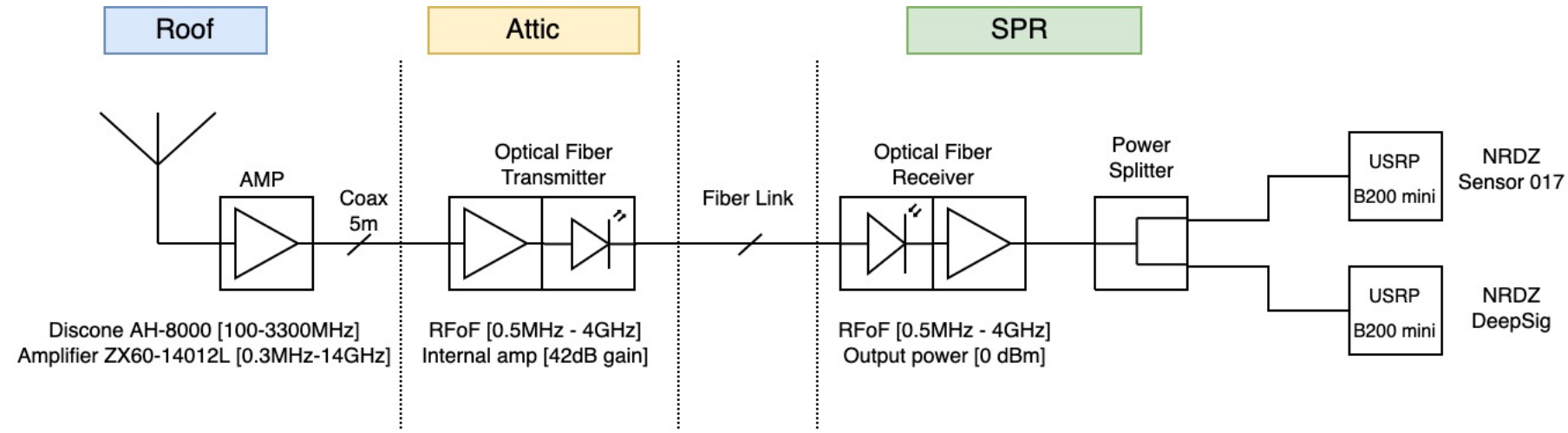# General Update

- SPR
  - Update internet to 2Gbit (for NRDZ)
  - Update Firewall and Core Switch (planned for Monday / Tuesday)

- Documentation:
  - Feed-focus document
  - Beamformer document
  - In process of writing up RFSOC design

- CHIME:
  - Geotechnical 24th and 25th of January
  - Clearing field
  - Shasta County Use Permit APPROVED

- NRDZ
  - 1st sensor installed
  - White Rabbit timing arrived
  - Next sensor installation planned for March
  - Storage node expected in February

- Antonio Feed

  - Maintenance plan for Antonio Feeds

  - 1E showed vacuum system failure (fixed)
  - 2B showed vacuum problems at low temperature (inspected)

- ATA full buildout

  - PAM design and prototype
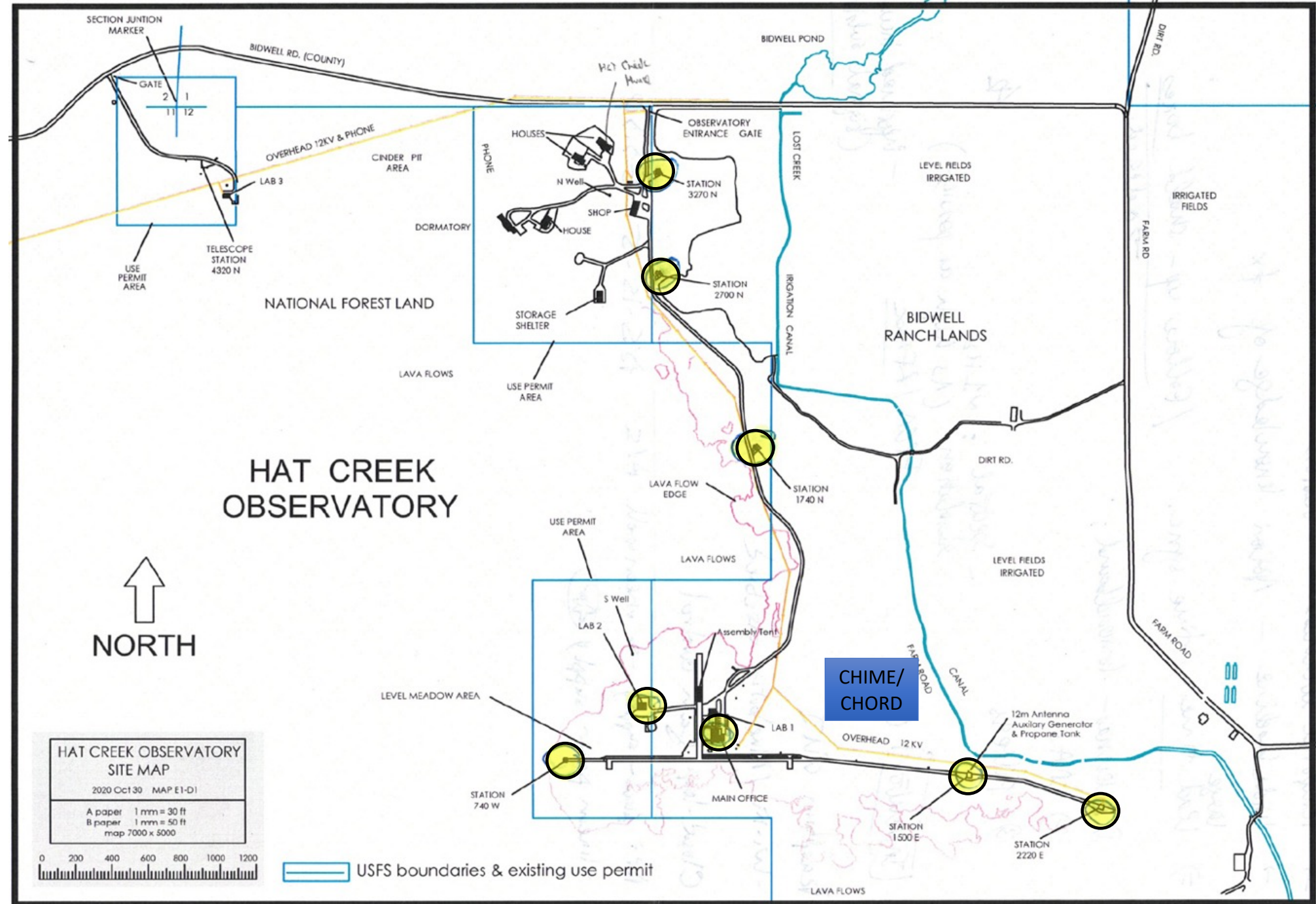 - PAX control board (Mike / Todd)

NRDZ:

- 2x USRPs connected to discone antenna on roof
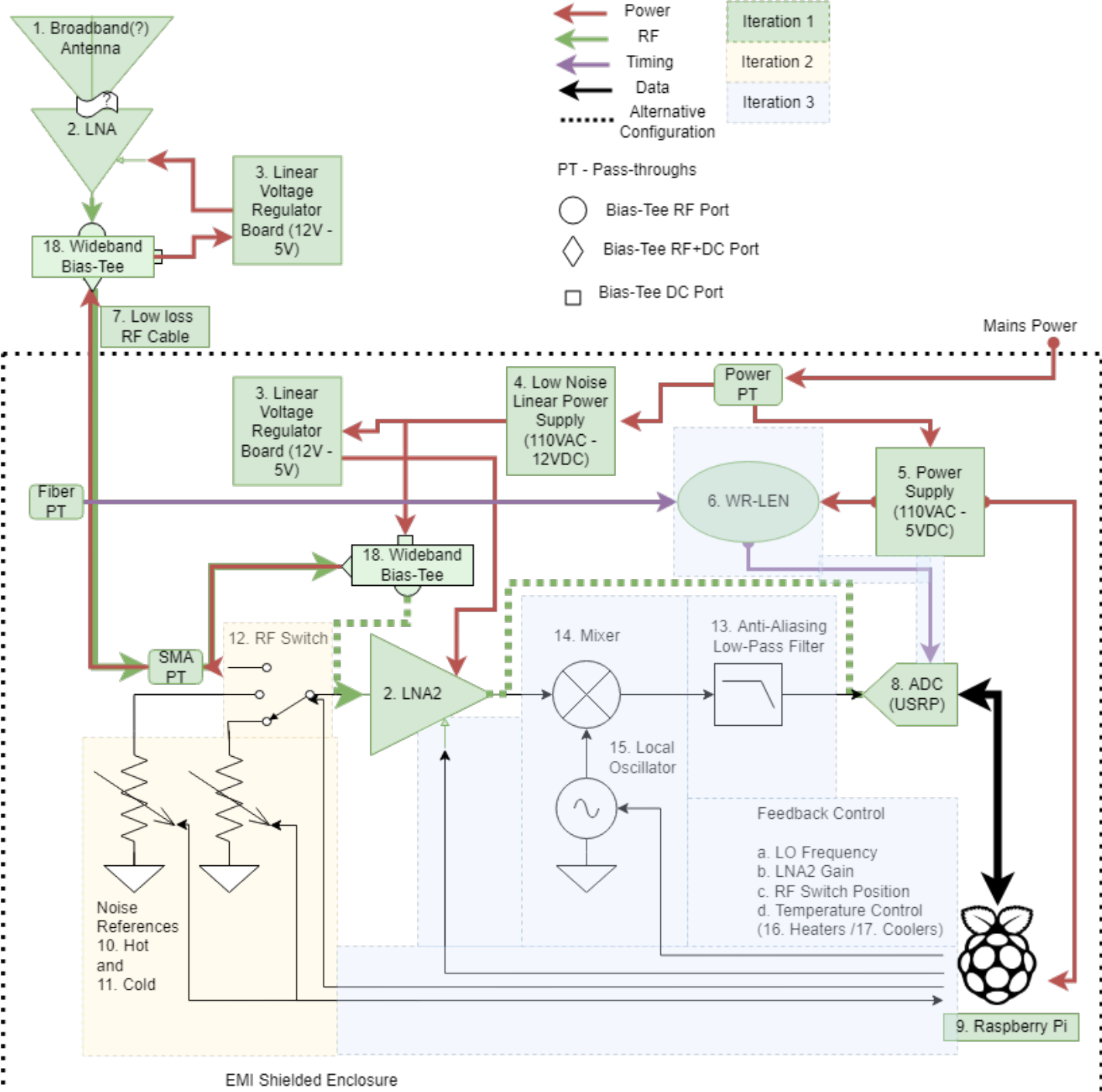
- 10MHz disciplined by 10MHz ref

Roof | Attic | SPR

AMP
Coax 5m

Discone AH-8000 [100-3300MHz]
Amplifier ZX60-14012L [0.3MHz-14GHz]

Optical Fiber Transmitter

RFoF [0.5MHz - 4GHz]
Internal amp [42dB gain]

Fiber Link

Optical Fiber Receiver

RFoF [0.5MHz - 4GHz]
Output power [0 dBm]

Power Splitter

USRP B200 mini — NRDZ Sensor 017

USRP B200 mini — NRDZ DeepSig

NRDZ:

- Sensor location

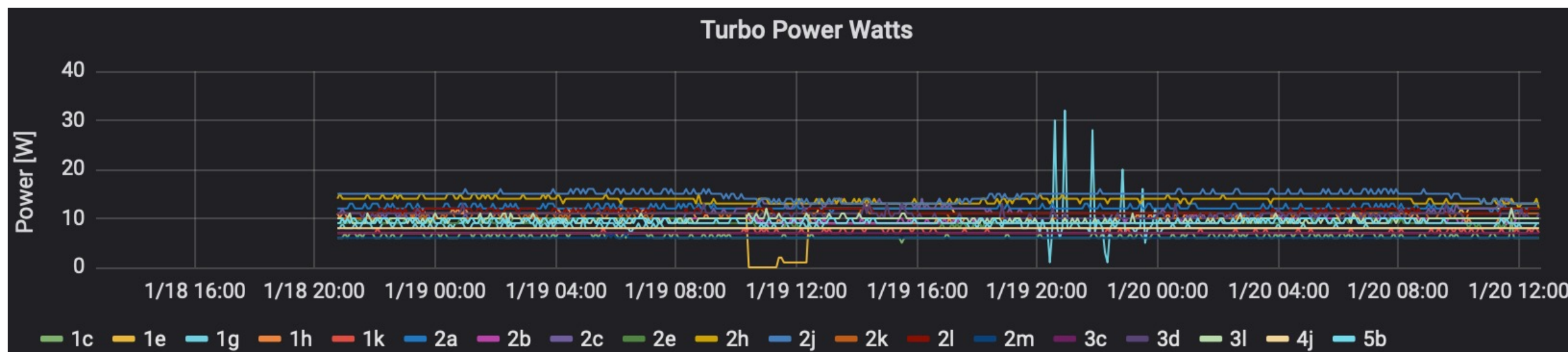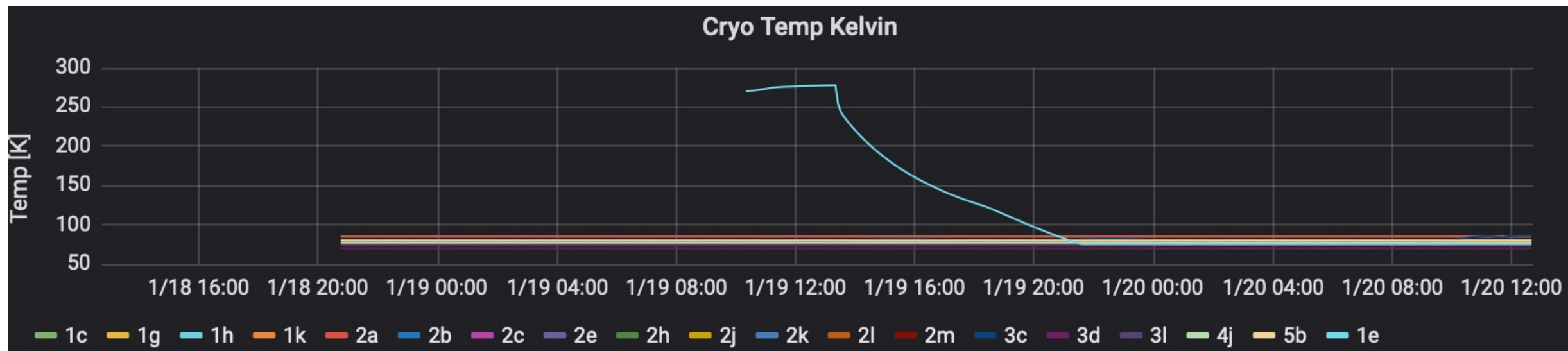HCRO-NRDZ RF Baseline Sensors initial layout
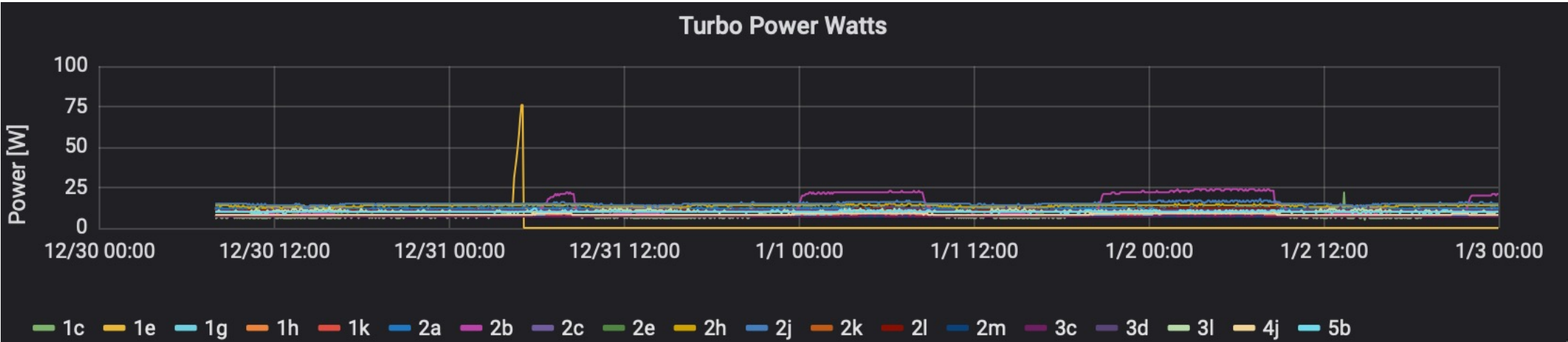
NRDZ:

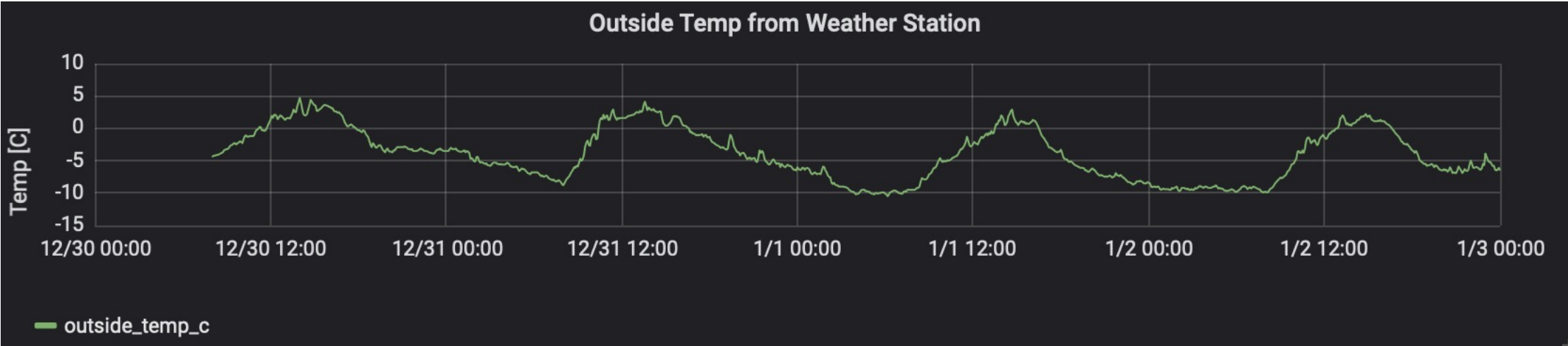- Sensor Design

1E:

Diaphragm pump replaced

SEFD measurement tonight

2B:

Shows increased turbo power consumption.

Mechanical noise from diaphragm pump.

Outside Temp from Weather Station

Turbo Power Watts

HCRO core network replacement
for 2Gbit internet

GitHub: https://github.com/SETIatHCRO/Front-Page/tree/master/MEMOS

| ⌥ master ▾ | **Front-Page** / MEMOS / | | Go to file | Add file ▾ | ··· |

| | AlexanderPollak added attemplifier memo | 0d4320d 26 seconds ago | 🕘 History |

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📁	2019-10 Antenna Tsys Measurement	added memos	4 months ago
📁	2020-01 Snap Board Enclosure	updated correct date of document	last month
📁	2020-02 PAX Power Level Control Software	added memos	4 months ago
📁	2020-09 ATA Dynamic Range Report	added memos	4 months ago
📁	2020-10 RFCB-Measurement Report	added memos	4 months ago
📁	2021-03 Interface & Rate Sheet	replaced old rate sheet	2 months ago
📁	2021-04 Pointing-Calibration	fix formatting	last month
📁	2021-07 Antonio Feed Buildout	added memos	4 months ago
📁	2021-08 Tsys-Calibration(RonMaddalena)	updated memo	2 months ago
📁	2021-09 ATA Beamformer	Add ATA GUPPI file format description	23 days ago
📁	2021-12 Attemplifier Module	added attemplifier memo	26 seconds ago
📄	.DS_Store	added attemplifier memo	26 seconds ago
📄	Readme.md	Update Readme.md	14 months ago