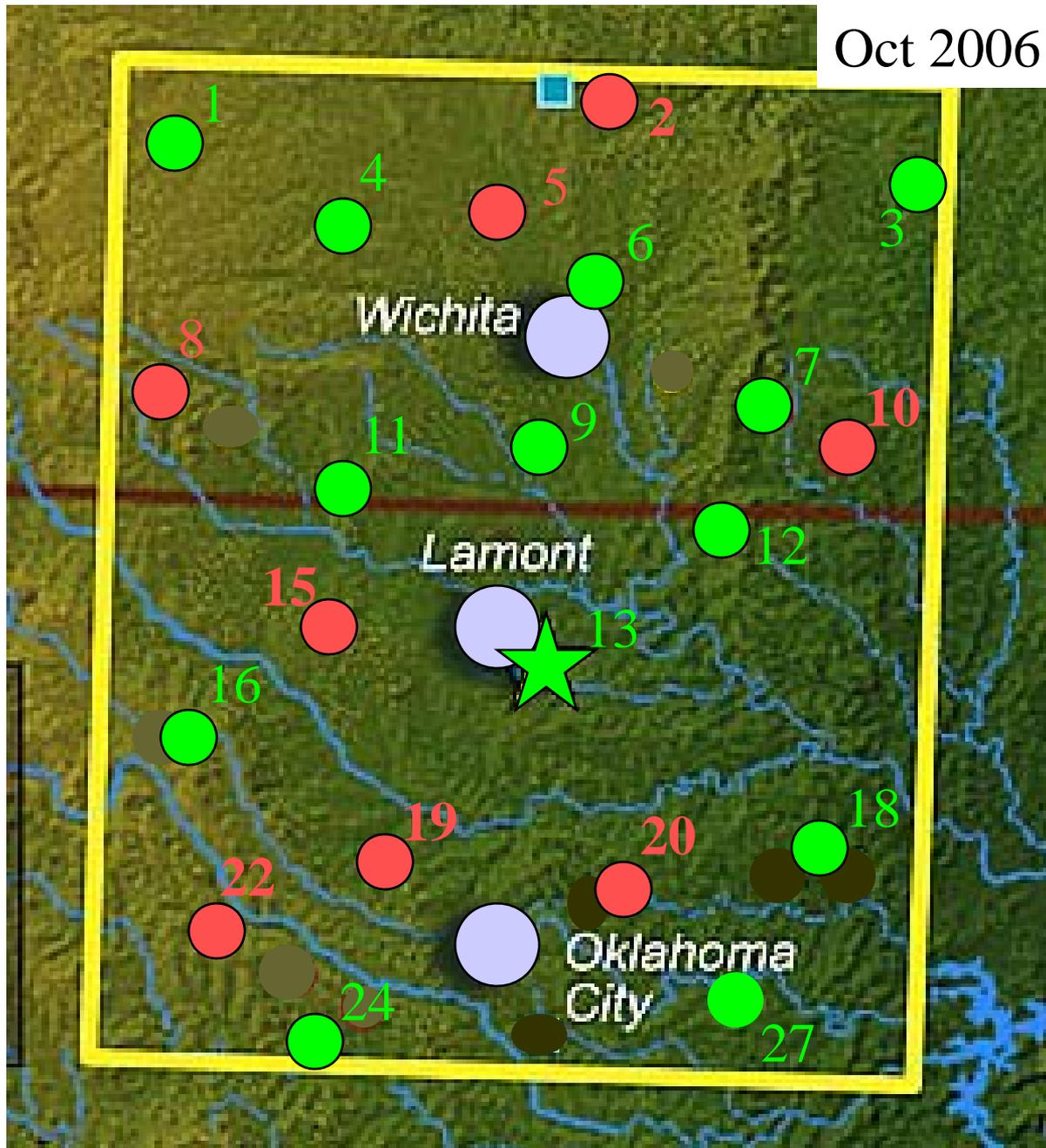


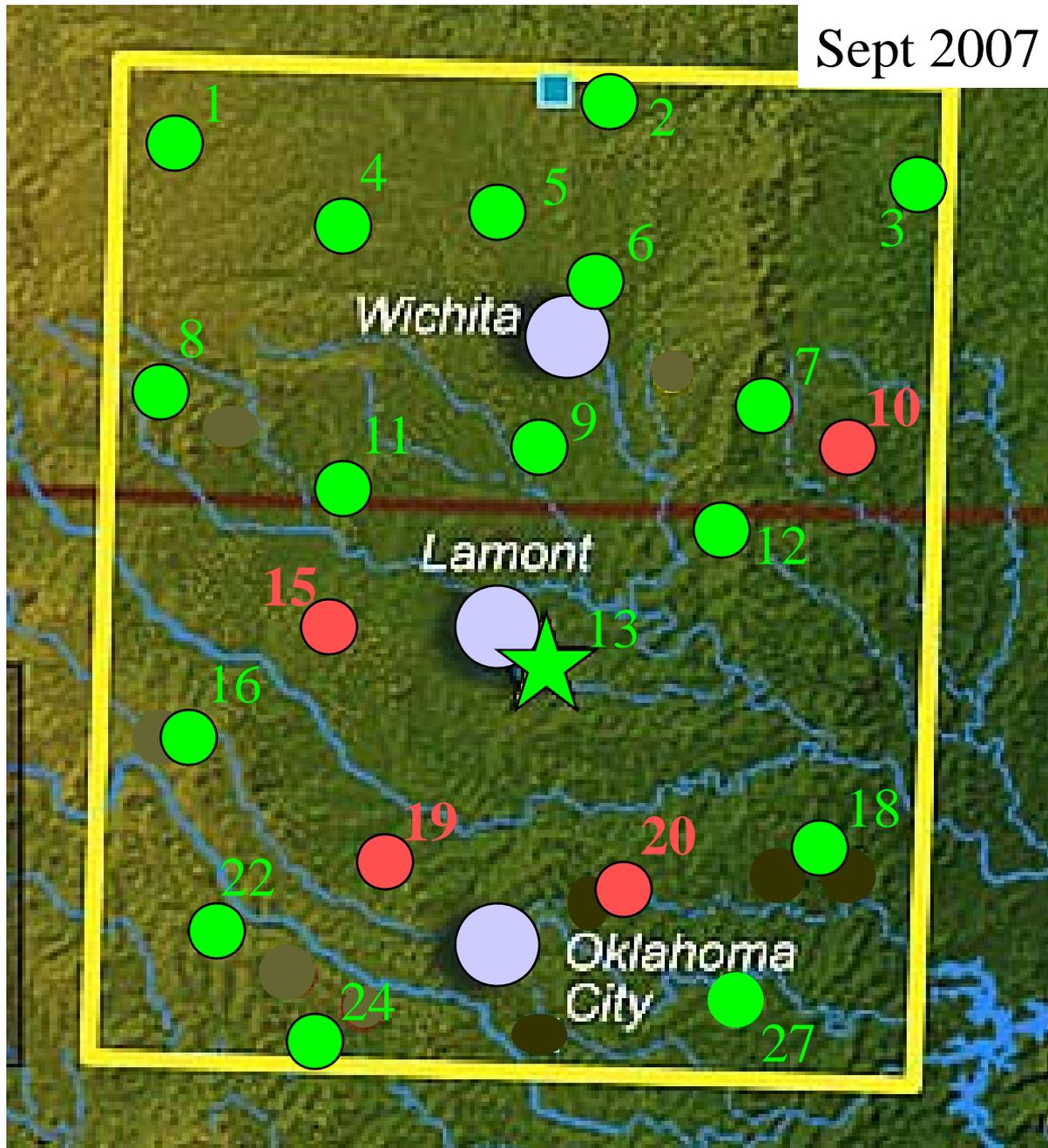
Gary Hodges

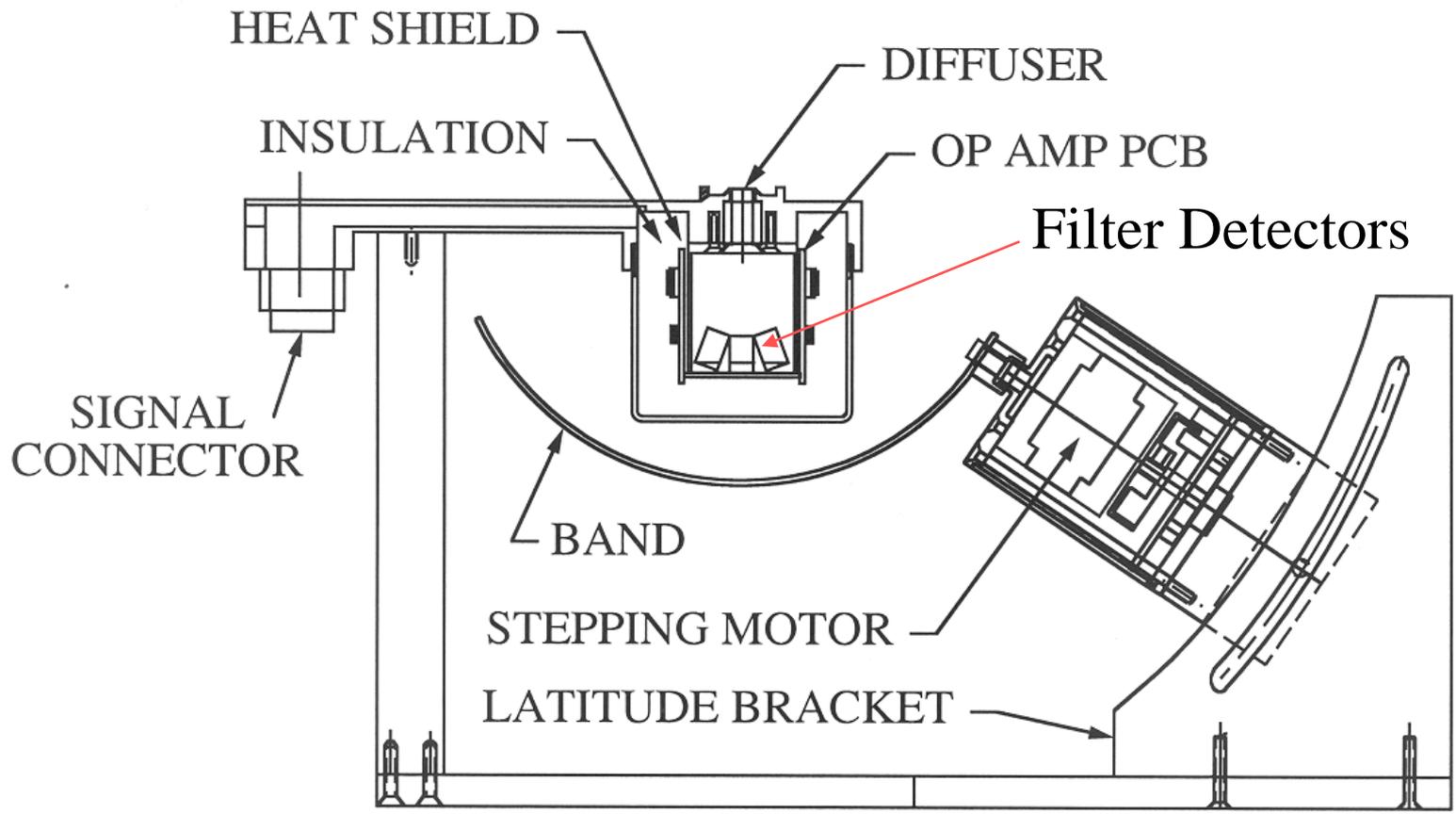
- MFRSR – Multi-Filter Rotating Shadowband Radiometer
- NIMFR – Normal Incidence Multi-Filter Radiometer
- NFOV – Narrow Field-Of-View
- MFR – Multi-Filter Radiometer

Oct 2006



Sept 2007





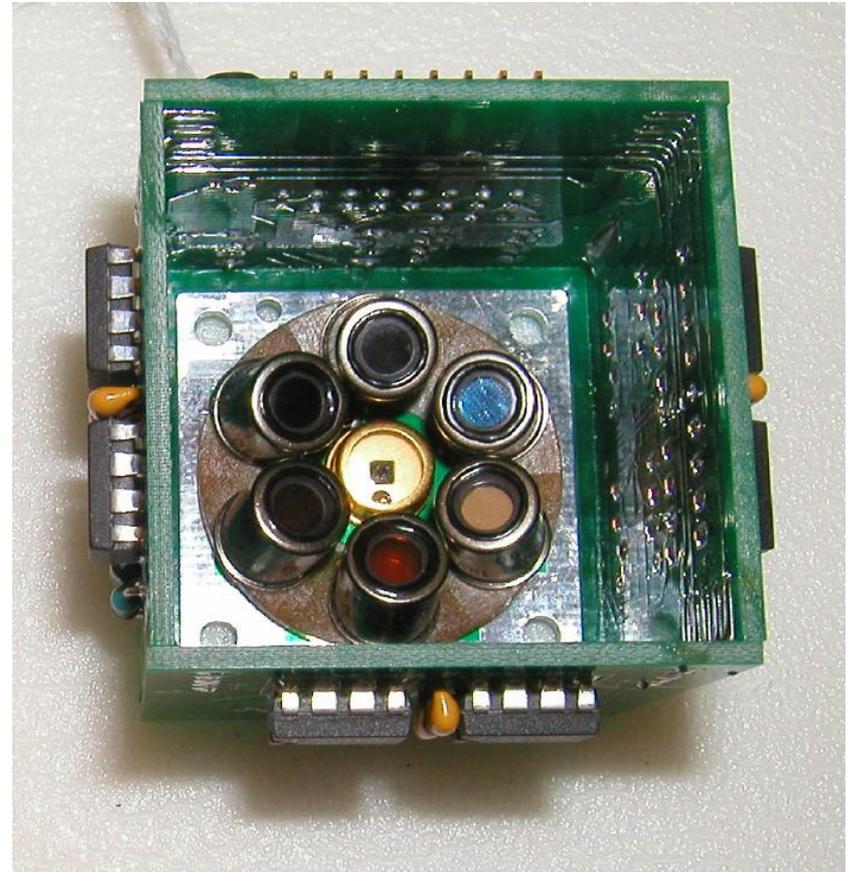
Refurbished Heads

The process includes:

- New filter detectors
- New cubes
- Relocate internal thermistors
- Relocate ID chip
- Gain resistors moved to cube
- New Connector
- Improved insulation

The finished heads:

- Are lamp calibrated
- Have filter profiles measured
- Cosine characterized
- Are out-of-band tested



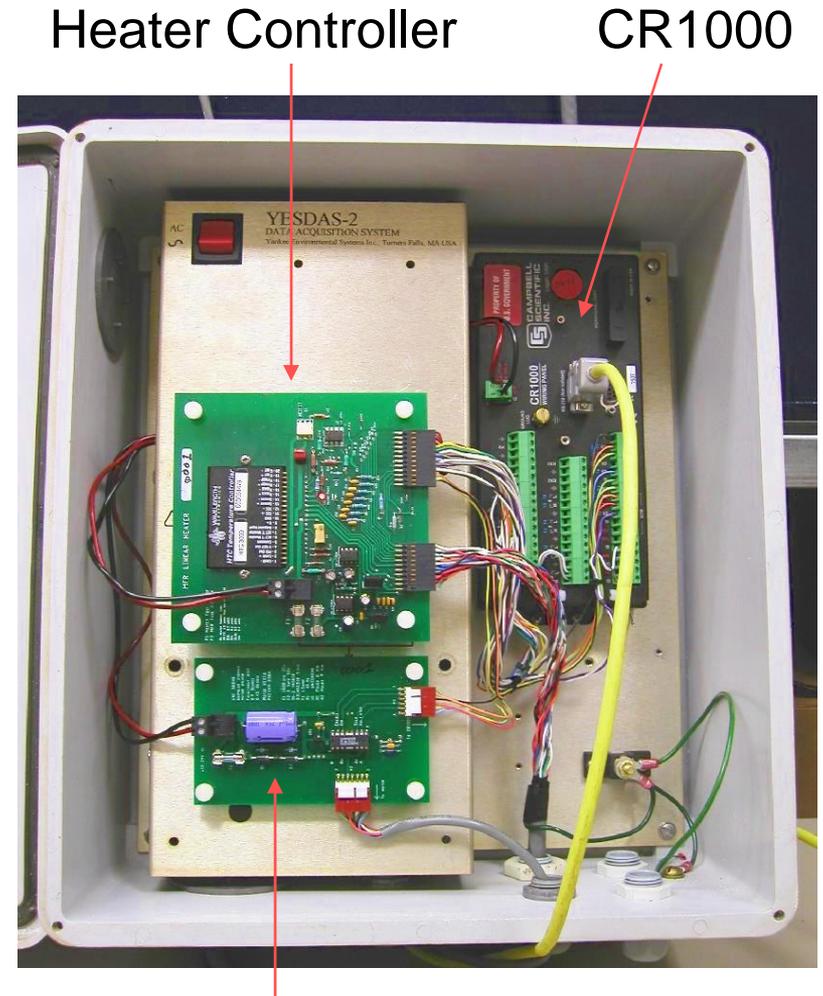
New Logging System

Features

- Campbell CR1000
- Linear heater replaces bang on/off
- Motor controller board
- Supports existing cables
- Installs in existing enclosure

Expanded Capabilities

- Additional measurements
- Finer steps
- Programming flexibility



Heater Controller

CR1000

Motor
Controller

MFRSR Data

- b1 data are nominally calibrated
- c1 data will be Langley calibrated.
Available very soon.
- Historical data will be reprocessed

NIMFR

NSA

- C2 Atqasuk channel 940 is dead. Decision was made to leave in place and repair this winter.
- Otherwise, NSA NIMFRs have operated well.

SGP

- Head amplifier and channel 840 failed in April. Was repaired and operating again in May.
- Datastream name is changing to C1

NFOV

Single Channel

- Sunsetting in April

Dual Channel

- Has been operating without trouble at FKB

MFR

NSA

- Early problems with Cal files. Resolved.
- No major operational problems

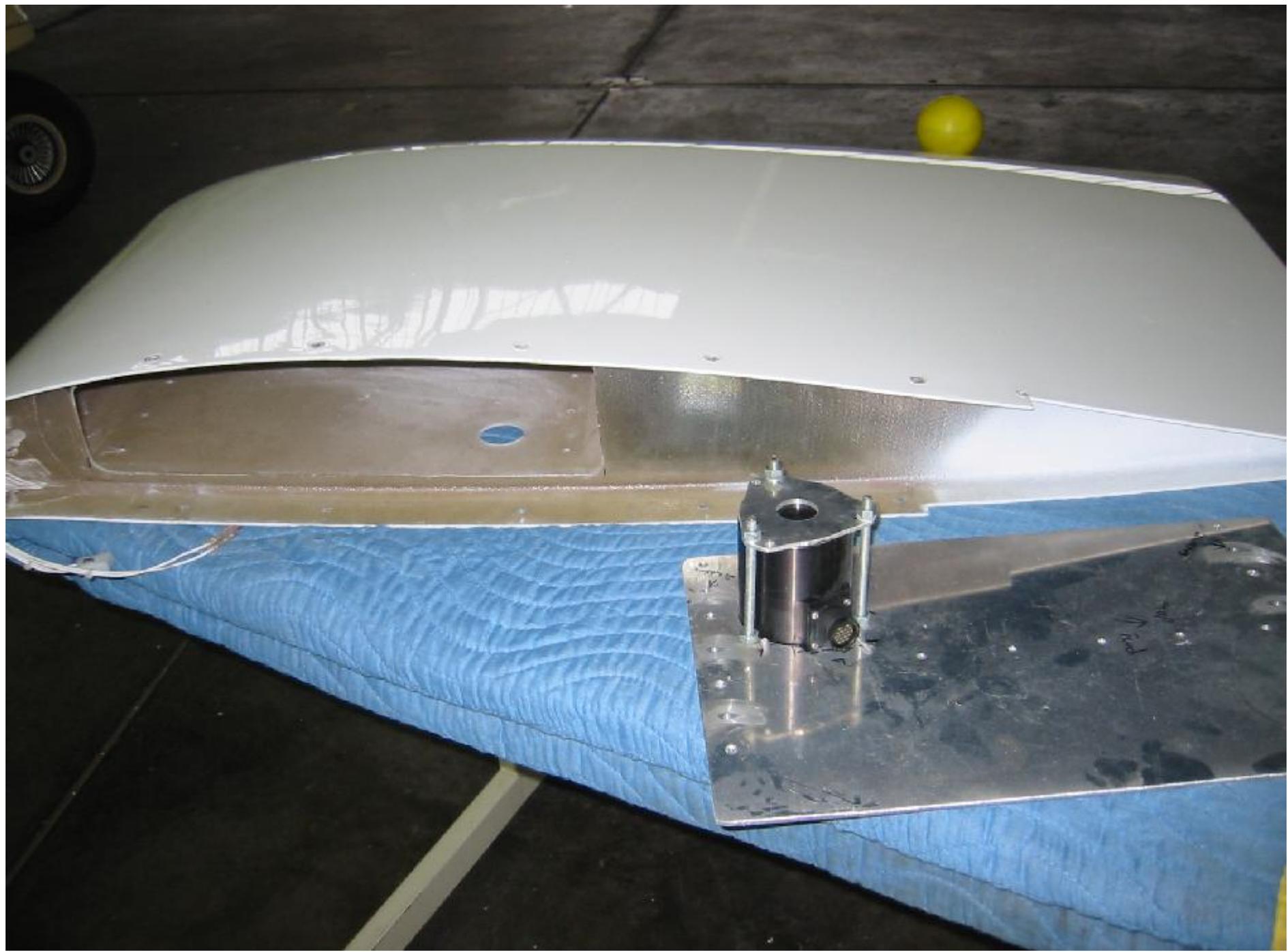
SGP

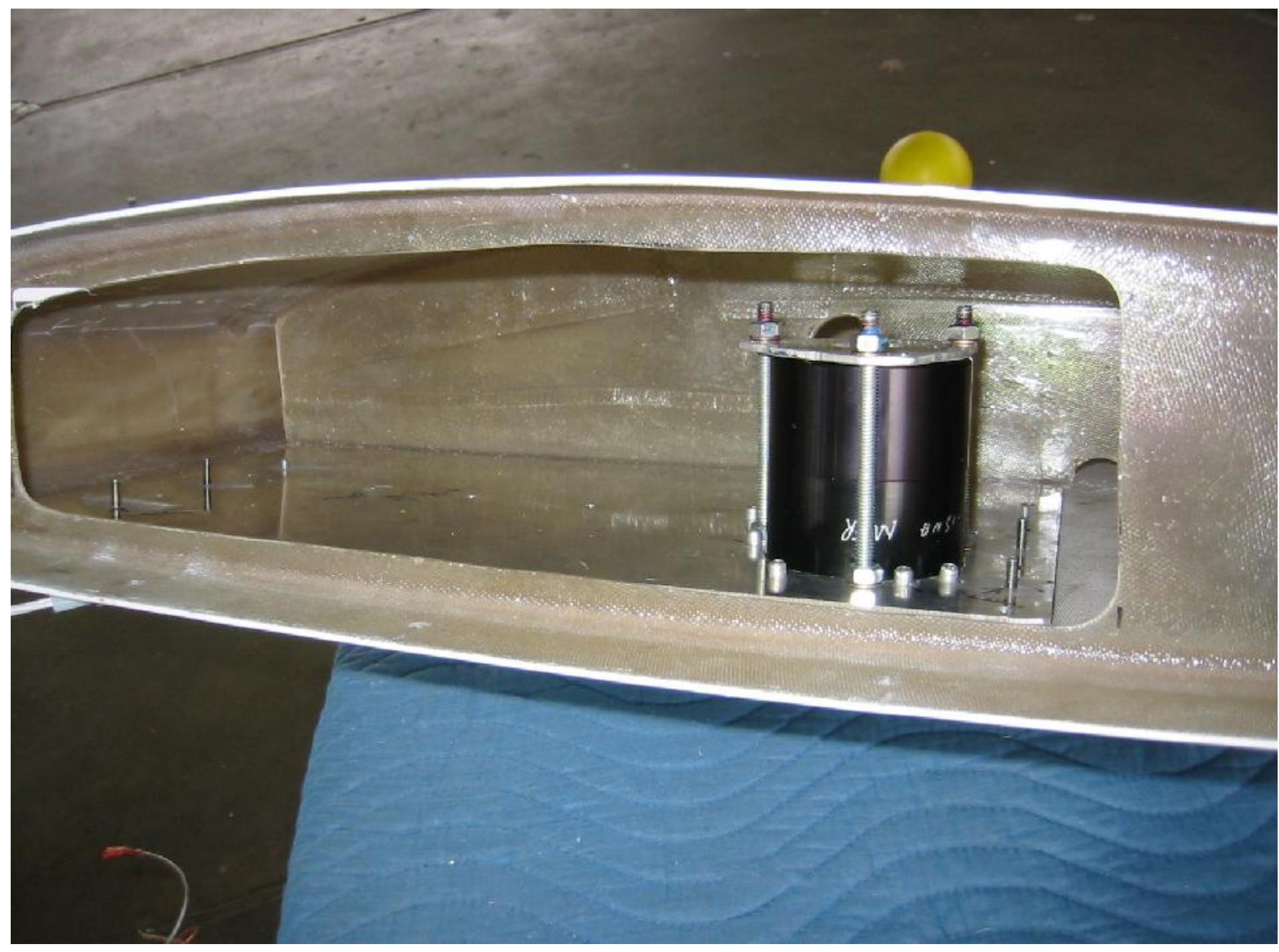
- Operated continuously without problems

MFR has been installed on the Cessna 206

ECO-00584 In progress

- Initial installation was unsatisfactory
- Greenwood made some modifications
- Mentor made more modifications
- Current install is poor. Needs to be redone.

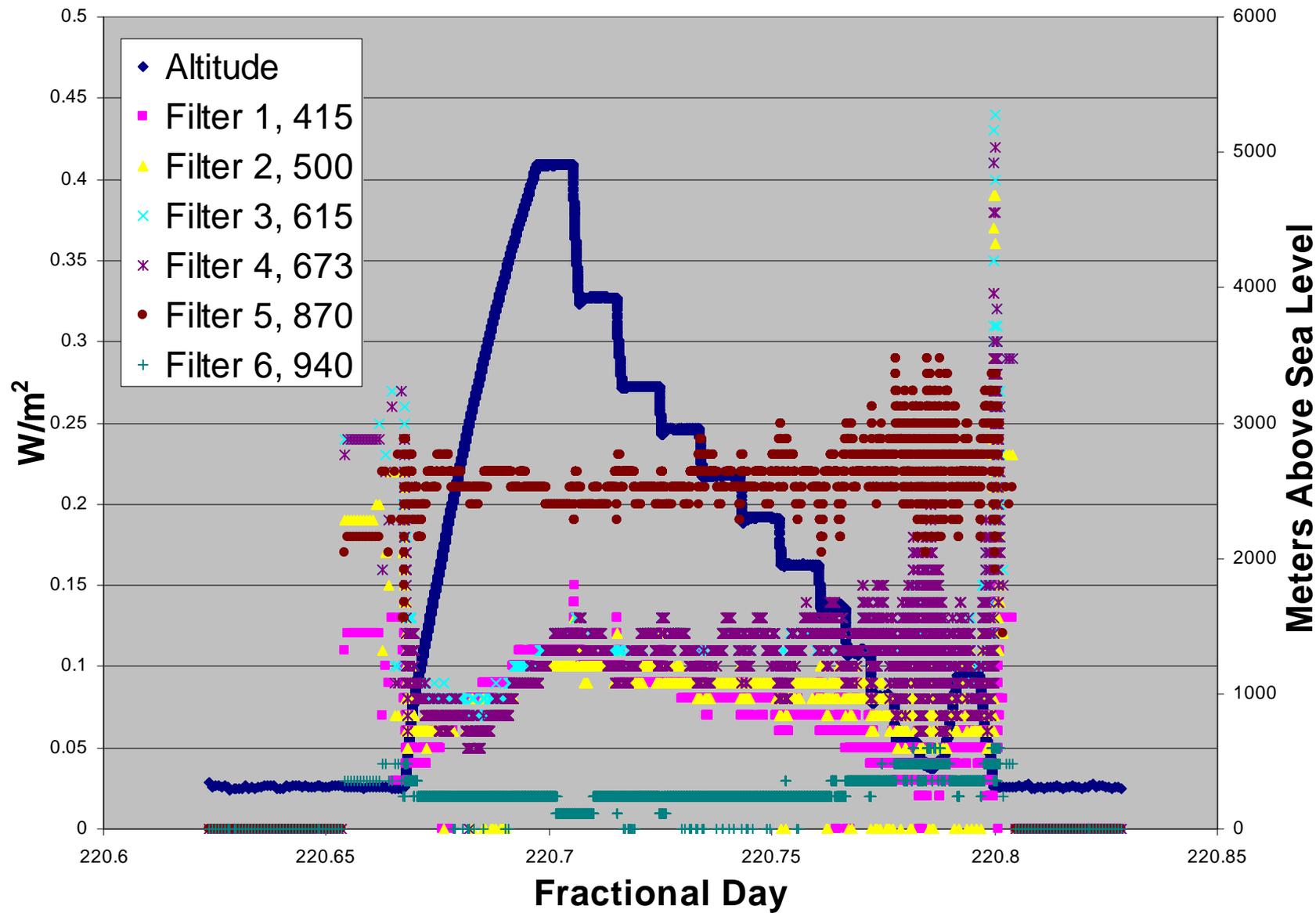












MFRSR Status

Southern Great Plains

- 21 Sites w/MFRSR
- 17 Operational Instrument
- 4 Out of Service

NSA, TWP and AMF

- 6 Sites w/MFRSR
- 6 Operational Instrument