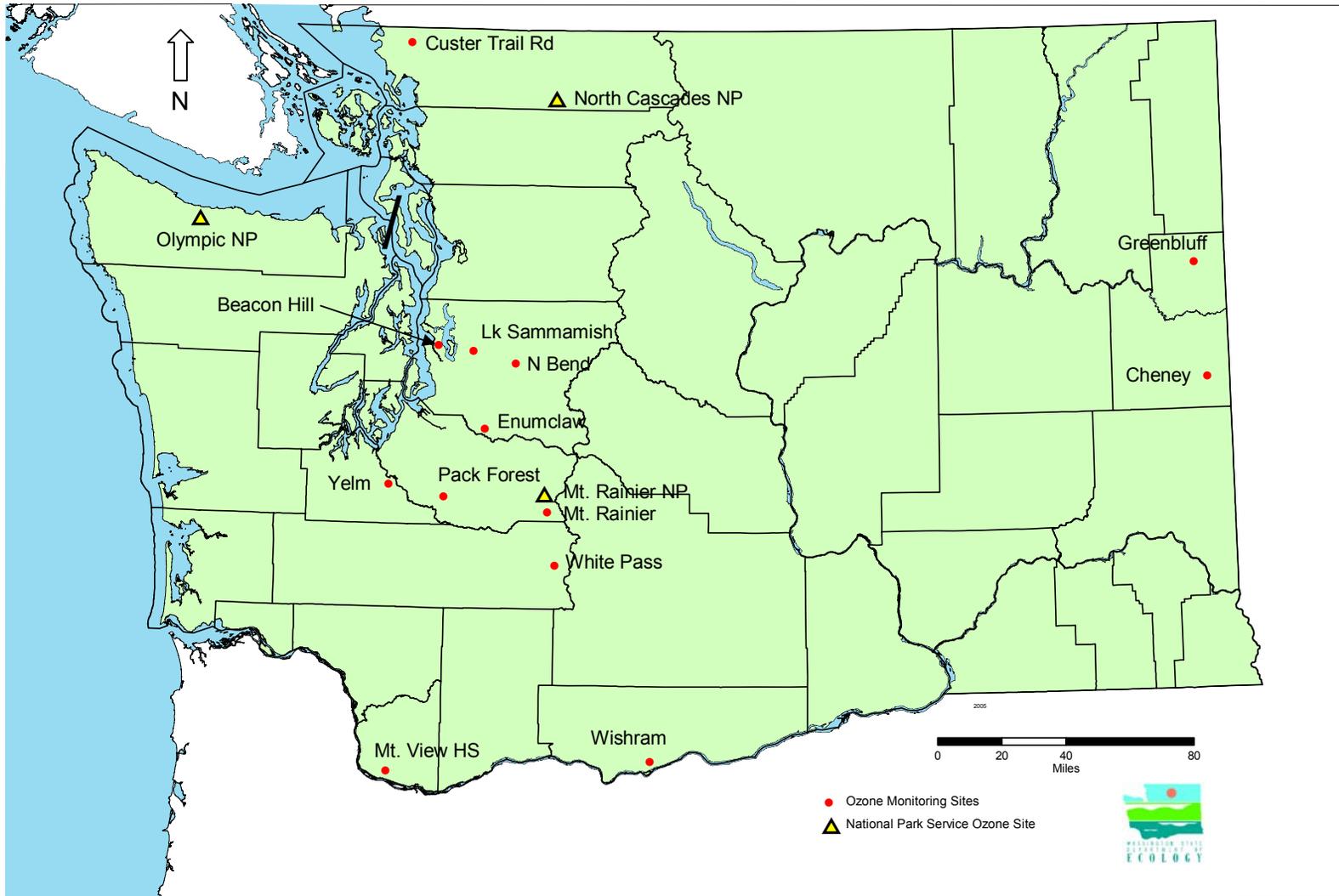


N-WADES

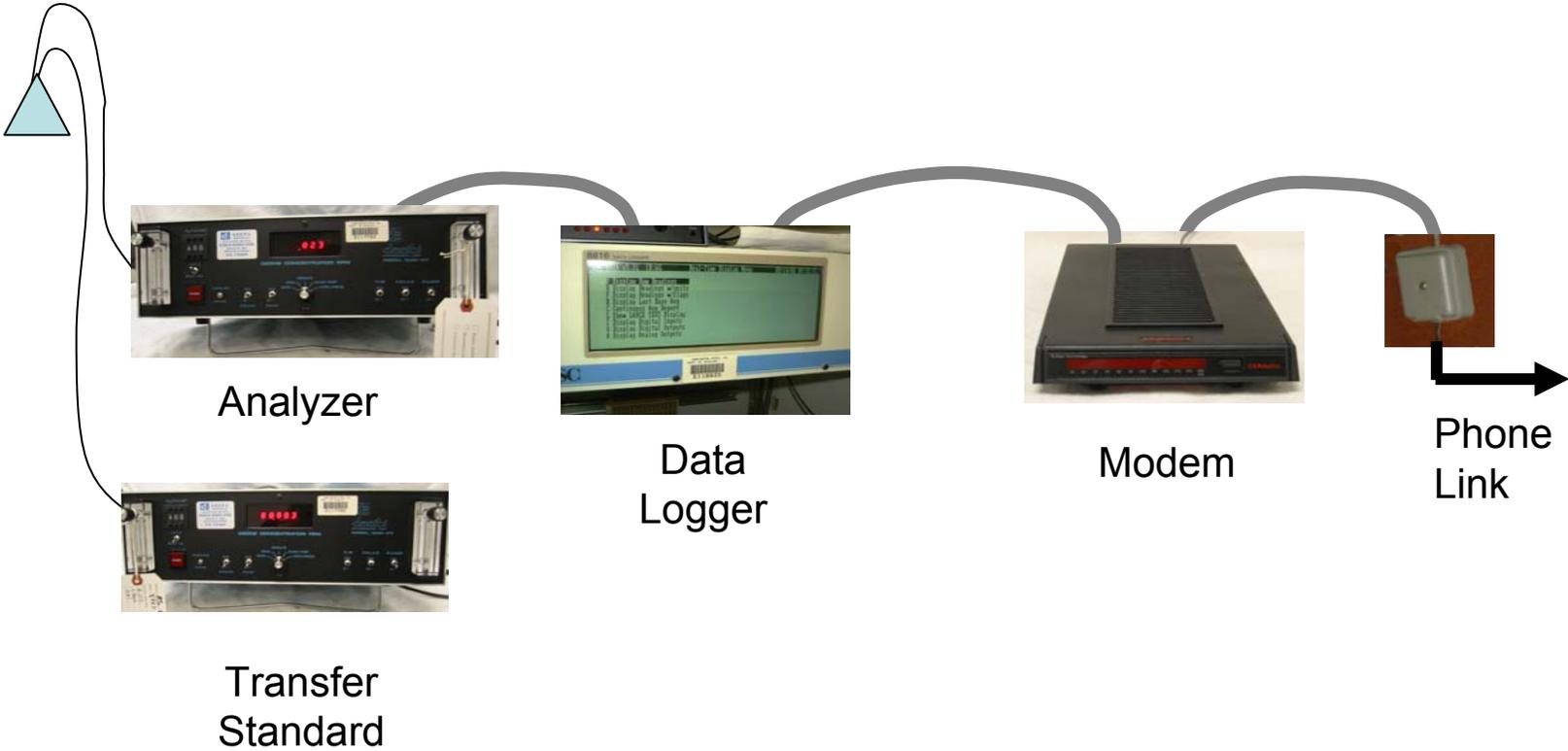
- EPA awarded grant to change the way we send data to EPA Air Quality System (AQS). (previously AIRS); improve data accessibility; and upgrade our current data acquisition systems.
- Team has been formed; a consultant has been hired to guide us through the project of identifying needs and formulating the Request for Proposal that will go to potential vendors.

- We expect to select a vendor by September 2005; installation will be in 2006.
- More partners will be involved in the data acquired by this network; more data will be available to anyone.



Data Loggers and Telemetry

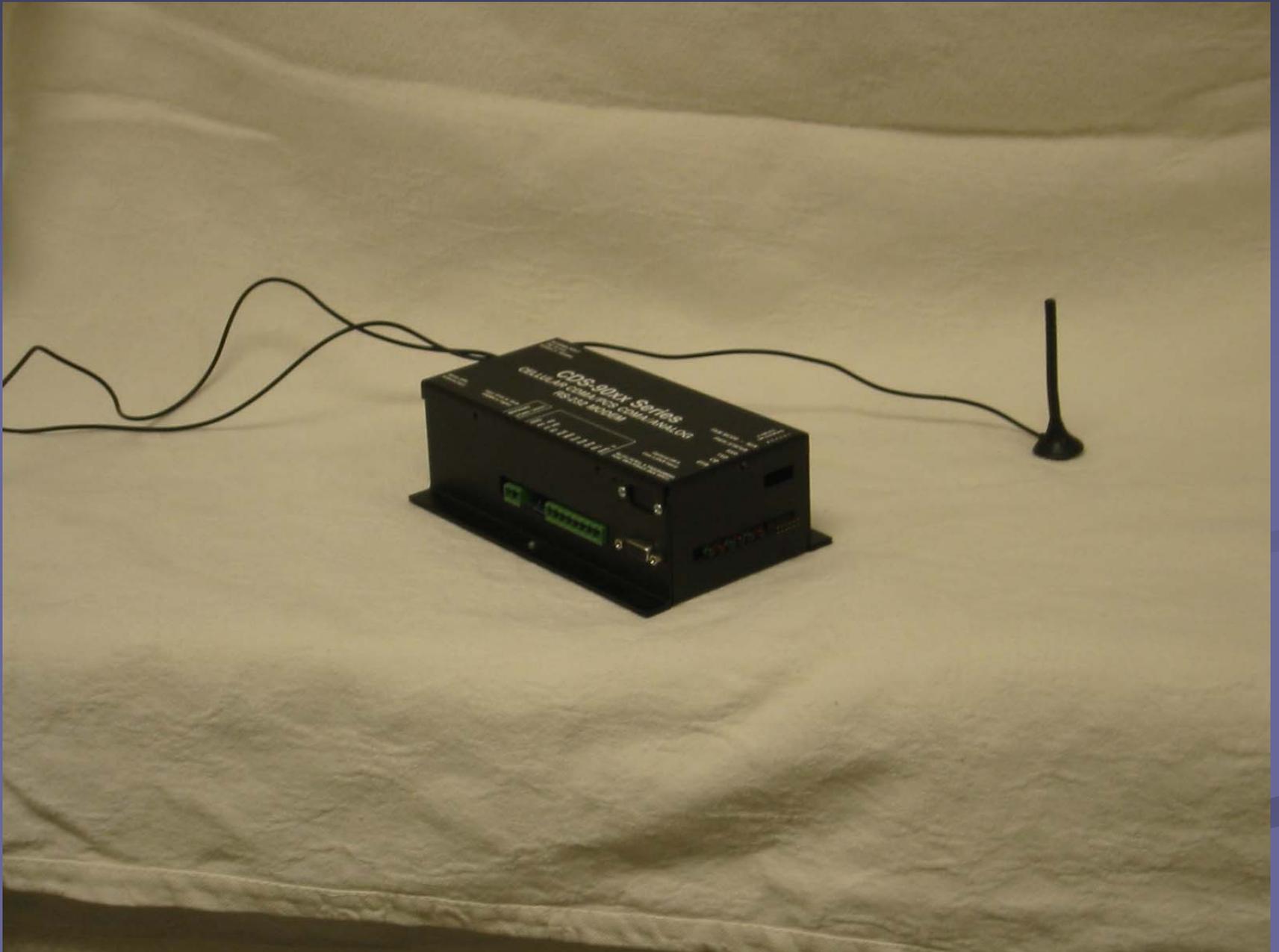
- Data logger connected to ozone analyzer to store the data.
- Data is transmitted (telemetered) to the central database in the Ecology building in Lacey.



Data Transmission

- At about 2 minutes after each hour, the central telemetry system in Lacey sends a request to each monitoring site for the previous hour of data. (The data logger compiles an hourly average.)
- At about 15 minutes after each hour, the central system sends a request to sites with 8816 data loggers for minute data from the previous hour.







U.S. Robotics

56 Kbps Technology

HS AA CD SH RU SD DTR MR RTS CTS DYS ARQ
FAX

U.S. Robotics



- The data is stored in the central telemetry system and a copy of the data is sent to the Ecology web server. The web server updates at about 15 minutes after the hour.
- All of the ozone data is shown on the site operators' page <https://fortress.wa.gov/ecy/aqp/Site/> on the graphs and on the 24x31 reports
- **AND** the public page at <https://fortress.wa.gov/ecy/aqp/Public/>

Viewing your Calibration Report

- Your calibration report is shown on <https://fortress.wa.gov/ecy/aqp/Site/>
- Click on Weekly Ozone Calibration Report
- Current week of calibrations is shown.

GENERAL DAILY CALIBRATION REPORT

Report Period: 02/02/05 -- 02/08/05

Site	Parameter	Start Date	Start Time	End Date	End Time	Phase Type	Actual Value	Indicated Value	Full Scale	Calib. Pct	Pass Fail	
RAIJACK	OZONE	02/02/05	02:46	02/02/05	03:12	0	0.000	-0.001 D N	0.090	0 N N N	++0	FAIL.
			02:46	02/02/05	02:54	2	0.000	0.001 D N	0.090	0 N N N	++0	FAIL
			02:46	02/02/05	03:09	3	0.090	0.088 D N	0.090	0 N N N	2.222222	PASS
		02/03/05	02:46	02/03/05	03:12	0	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/03/05	02:54	2	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/03/05	03:09	3	0.090	0.088 D N	0.090	0 N N N	2.222222	PASS
		02/04/05	02:46	02/04/05	03:12	0	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/04/05	02:54	2	0.000	-0.001 D N	0.090	0 N N N	++0	FAIL
			02:46	02/04/05	03:09	3	0.090	0.087 D N	0.090	0 N N N	3.333333	PASS
		02/05/05	02:46	02/05/05	03:12	0	0.000	-0.001 D N	0.090	0 N N N	++0	FAIL
			02:46	02/05/05	02:54	2	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/05/05	03:09	3	0.090	0.087 D N	0.090	0 N N N	3.333333	PASS
		02/06/05	02:46	02/06/05	03:12	0	0.000	-0.001 D N	0.090	0 N N N	++0	FAIL
			02:46	02/06/05	02:54	2	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/06/05	03:09	3	0.090	0.088 D N	0.090	0 N N N	2.222222	PASS
		02/07/05	02:46	02/07/05	03:12	0	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/07/05	02:54	2	0.000	-0.001 D N	0.090	0 N N N	++0	FAIL
			02:46	02/07/05	03:09	3	0.090	0.086 D N	0.090	0 N N N	4.444445	PASS
		02/08/05	02:46	02/08/05	03:12	0	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/08/05	02:54	2	0.000	0.000 D N	0.090	0 N N N	-999.000	PASS
			02:46	02/08/05	03:09	3	0.090	0.086 D N	0.090	0 N N N	4.444445	PASS

-999 = Invalid data

INTCHK = Interference check

<https://fortress.wa.gov/ecy/aqp/Site/>

And the Data Moves On

- The Quality Assurance Unit determines which data will pass their requirements. Edits are made to the database.
- Data is sent up to the EPA Air Quality System where it is available for the world to access.

At the monitoring site, what could go wrong?

- Data logger problems:
 - Loses programming
 - Screen is unreadable

- Call me with problems.

You just checked your 24x31 report, and your site is missing data or calibration report does not show

- Call or email Joan Kiely 360-407-6839 or iras461@ecy.wa.gov
 - Could be several reasons: the telemetry system has not caught up data; the web server is not operating; phone line problem
 - You left a channel on the data logger disabled; it can be enabled remotely.

Hands-on Training: data loggers

- Data loggers are available in this room and at the hands-on training at the end of the day today. Please feel free to ask questions then or now.