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Coastal Environmental Systems
Air Quality Forecasting and Real-time Data

Seattle, WA: How would you like to know what the ozone level is going to be during your lunchtime jog today – or how about the NOx level in your neighborhood when your kids get home and want to play outside?

Well it's closer than you think, and you can already get the current readings of such pollutants with just a click of your mouse.

Coastal Environmental Systems, Inc. supplies their ZENO® datalogger to IPS MeteoStar to do just that. IPS MeteoStar brings data in by several means (telephone, satellite) and then models common pollutants. The next step is perfecting the forecasting. An accurate forecast will not only require the pollution measurements, but current and forecast weather as well.

Want to see what is available now?
Real-time air quality data is available now from most of the State of Texas and several U.S. Environmental Protection Agency (EPA) Continuous Air Monitoring Station (CAMS) sites. Data can be viewed on-line at the Texas Commission on Environmental Quality (TCEQ) (formerly TNRCC) web site. This site provides numerous pages of air quality monitoring data for each location, and includes: site information, current data, monthly data reports with minimums, maximums, captures, etc., and the ability to view all the sulfates, nitrates, and carbons – among other data options.
A great place to see what is available now is at the following links:

Air Quality Index Reports
http://www.tnrcc.state.tx.us/cgi-bin/monops/texas_aqi
Monitoring Sites
http://www.tnrcc.state.tx.us/cgi-bin/monops/select_summary
Data Report By Parameter
http://www.tnrcc.state.tx.us/cgi-bin/monops/daily_average
Monthly Reports
http://www.tnrcc.state.tx.us/cgi-bin/monops/monthly_summary
Ozone Animations
http://www.tnrcc.state.tx.us/cgi-bin/monops/ozone_animation
Automatic Notifications
http://www.tnrcc.state.tx.us/air/monops/o3emailnotify.html
Continuous Water Quality Data
http://www.tnrcc.state.tx.us/cgi-bin/monops/select_water_daily
http://www.tnrcc.state.tx.us/cgi-bin/monops/site_photo?702

What is monitored now?
National Ambient Air Quality Standards (NAAQS) have been established by the EPA for six air pollutants: ozone, lead, carbon monoxide, sulfur dioxide, nitrogen dioxide, and respirable particulate matter. The standards were established to protect the public from exposure to harmful amounts of pollutants.

Weather Too!
Many of the systems also measure meteorological parameters, which may include: Wind Speed, Resultant Wind Speed, Maximum Wind Gust, Standard Deviation of Horizontal Wind, Temperature, and Humidity.

More Examples
There is even a specialized EPA monitoring site here in Seattle. From the links below you can view photos and area maps of the local IPS MeteoStar system, obtain real-time monitoring data, as well as historical data, identify which parameters are currently being monitored, and obtain local conditions.

CAMS 1004: Beacon Hill, Seattle, WA
http://www.tnrcc.state.tx.us/cgi-bin/monops/site_photo?1004
http://www.tnrcc.state.tx.us/cgi-bin/monops/daily_summary?1004
http://www.tnrcc.state.tx.us/cgi-bin/monops/monthly_summary?1004

IPS MeteoStar Weather Web site
http://wxweb.meteostar.com
http://wxweb.meteostar.com/radar/nav/index.shtml
http://wxweb.meteostar.com/ag/index.shtml

The data logger used at each of these sites is Coastal Environmental Systems' ZENO® 3200, the world's first low-power data acquisition system with a 32-bit processor and 18-bit resolution on analog inputs. The ZENO® reads almost any sensor, processes data, checks alarms and control functions, and stores and telemeters remotely collected data. Paired with MeteoStar's specialized LEADS software, the ZENO® 3200s mechanical robustness, low-power requirements, advanced processing and storage capabilities, and communications options make it ideal for this type of Air Quality Network.

For Immediate Release

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