

INTERCEPT® Data Collection, Display and Forwarding Software

INTERCEPT® automatically collects data from one to one hundred ZENO® and WEATHERPAK® stations, displays the data, organizes the data into files or a database, and allows users, with the proper permissions and password, to view the data with a web browser.

INTERCEPT® provides XML data feeds, so data can be ingested by other applications such as a database or web site.

INTERCEPT® allows users to configure alerts, and group multiple stations into “viewing groups,” making several stations easier to observe at a glance.

INTERCEPT® automatically synchronizes the time stamp of all stations with the attendant server.

INTERCEPT® provides user customizable log files, which can then be downloaded to the desktop via the user interface.



The screenshot displays the INTERCEPT web interface. At the top, there are navigation tabs for 'User', 'Records', and 'Help', and user role buttons for 'Observer', 'Maintenance', and 'Administrator'. The main header shows the 'INTERCEPT' logo and a 'Group 3' dropdown menu. Below this, there are tabs for 'Weather Summary', 'Wind Dials', and several station identifiers: 'USGS_HVO_09', 'USGS_HVO_10', 'USGS_HVO_11', 'USGS_HVO_12', and 'USGS_HVO_13'. The main content area is divided into several sections:

- Station Info:** A table with columns 'Observation' and 'Value'.

Observation	Value
Name	USGS_HVO_10
Zeno Time	15:09:55 PDT
Zeno ID	18
- Wind Display:** A circular gauge showing wind speed and direction. The speed is 1.2 m/s and the direction is 258°. The gauge has a compass rose with N, S, E, and W markers.
- Temperature, Pressure, Precip.:** A table with columns 'Observation', 'Value', and 'Unit'.

Observation	Value	Unit
AT_Ext	23.6	°C
AT_Int	24.6	°C
Humidity	32	%
Pressure	1008.6	mbars
PP_accum	0.512	mm
- Zeno Status:** A table with columns 'Observation', 'Value', and 'Unit'.

Observation	Value	Unit
Power	14.5	VDC
BIT	0	Hex
- Wind:** A table with columns 'Observation', 'Value', and 'Unit'.

Observation	Value	Unit
Speed		
Gust		
Direction		
Variance		

An inset window shows a similar view for station 'USGS_HVO_03'. In this view, the wind speed is 0.6 m/s and the direction is 105°. The Zeno Status table shows Power at 13.8 VDC and BIT at 0 Hex.

Day and night viewing screens are selectable as well as desktop and console views.

INTERCEPT® Features:

- An unlimited number of station groups can be created.
- Each station's data and status can be viewed individually.
- The user can choose the units displayed (MPH, MPS, Knots, C° or F°).
- A summary of all station data is displayed in tab view.
- Selectable day or night view; choose dark text on light background or amber text on dark background.
- Automatically synchronizes the time clock of all stations on the network.
- Software runs continuously and will automatically return to normal operation following a power interruption.

INTERCEPT						
Weather Summary		Wind Dials	USGS_HVO_09	USGS_HVO_10	USGS_HVO_11	USGS_HVO_12
Region	Station Name	Zeno Time	Collector Time	Zeno ID	Speed: kts	Gust: kts
▼ Group 1						
	USGS_HVO_01	15:09:56 PDT	15:17:26 PDT	9	9.6	12.5
	USGS_HVO_02	15:09:55 PDT	15:17:26 PDT	10	9.8	12.7
	USGS_HVO_03	15:09:55 PDT	15:17:26 PDT	11	10.1	13.1
	USGS_HVO_04	15:19:55 PDT	15:21:26 PDT	12	10.4	13.5
▼ Group 2						
	USGS_HVO_05	15:09:55 PDT	15:17:44 PDT	13	10.8	14.0
	USGS_HVO_06	15:09:55 PDT	15:17:26 PDT	14	11.2	14.6
	USGS_HVO_07	15:09:55 PDT	15:17:58 PDT	15	11.5	15.0
	USGS_HVO_08	15:09:55 PDT	15:17:26 PDT	16	11.8	15.3
▼ Group 3						
	USGS_HVO_09	15:09:56 PDT	15:17:26 PDT	17	12.1	15.7
	USGS_HVO_10	15:09:55 PDT	15:17:26 PDT	18	12.4	16.2

Alert Screen

INTERCEPT			
Stations	Settings	Data Collection	Data Display
Layout			
Alerts			
Condition Editor		Alert Settings	
Select an element ▼ Select an operator ▼ Value: <input type="text"/> Units: °C		Alert ID: Freezing Alert text: Freezing Temp Play sound? <input type="checkbox"/> Select a sound ▼ Apply to: <input checked="" type="radio"/> All Stations <input type="radio"/> Specific Station Select a station ▼	
Add Condition		Foreground: <input type="checkbox"/> Background: <input checked="" type="checkbox"/> Effect: <input type="checkbox"/> blink	

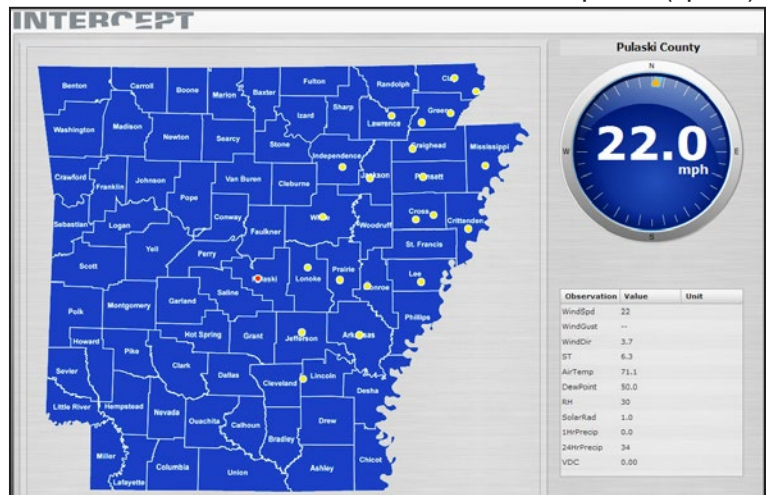
Web Services & Database Features:

- Anyone, with proper permissions and password, can view data using any web browser.
- Data files are available on a network or the Internet (with proper permissions).
- Users can create simple alerts based upon a single sensor's data, or more complex alerts using data from multiple sensors.
- Alerts and error conditions are displayed on a ticker tape at the bottom of the display.
- The operational status of a network of weather stations can be viewed on the maintenance dashboard. The user can also view specific warnings or alarms for an individual station.
- An optional map interface features point-and-click access to individual ZENO® or WEATHERPAK® data.
- User customizable log files and user logs can be downloaded to your desktop through the user interface.
- Supports Windows® 7, 8, 10 and Linux.

Dashboard Screen

INTERCEPT			
Stations	Settings	Data Collection	Data Display
Group 1 Group 2 Group 3			
Group 1			
USGS_HVO_01 Collector Timestamp: 2010-05-11 13:46:12.719 PDT Zeno Timestamp: 2010-05-11 13:39:55.0 PDT Status: OK	USGS_HVO_02 Collector Timestamp: 2010-05-11 13:47:28.194 PDT Zeno Timestamp: Status: AT Static	USGS_HVO_03 Collector Timestamp: Zeno Timestamp: Status: Disab	
Disable	Details	Disable	Details

Map Screen (Optional)



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