

Features of the ITWS SD

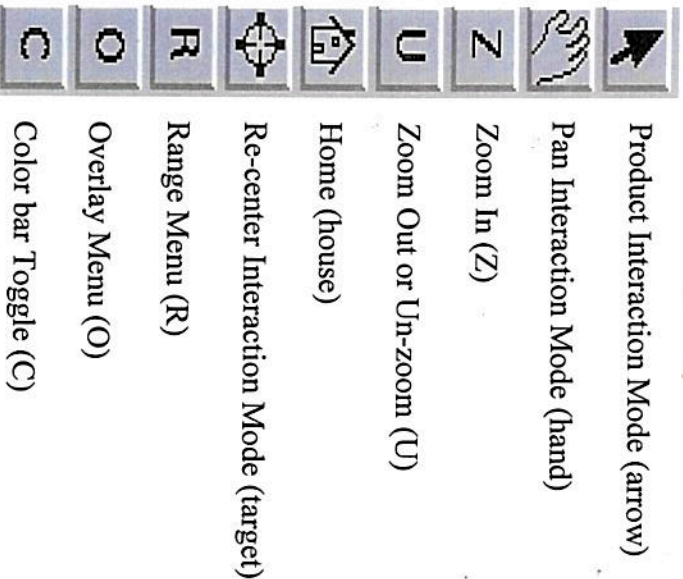
Display Configuration Buttons



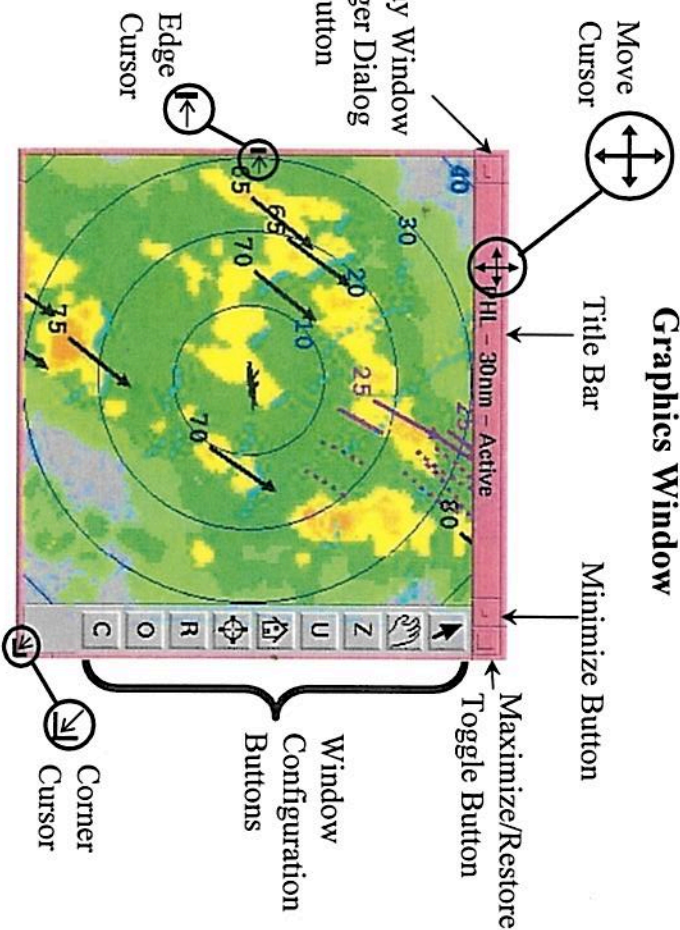
Change Runway Configuration. Use left trackball button to click Runway button, then click left trackball button to install desired runway configuration. Confirm if necessary. (ARTCC SDs are restricted from making runway configuration changes.)

Create a Window. Click the left trackball button on the Window button then on the New button. Click the left trackball button to choose window type.

Window Configuration Buttons

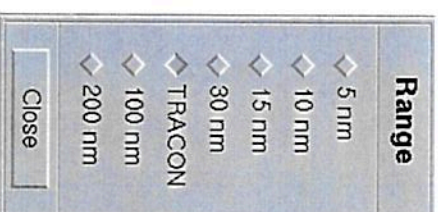


Graphics Window



Graphics Window Range Selection

Range Option	Precipitation Product
5 nm	TDWR (0.13 nm Resolution)
10 nm	TRACON (0.54 nm Resolution)
15 nm	TRACON (0.54 nm Resolution)
30 nm	TRACON (0.54 nm Resolution)
TRACON	TRACON (0.54 nm Resolution)
100 nm	100-nm NEXRAD (0.54 nm Resolution)
200 nm	200-nm NEXRAD (2.2 nm Resolution)



Features of the ITWS SD

Product Status Buttons

MB	Precip	Stm Exp	Stm Mot	Stm Cell	Tornado	ATIS
GF	ASR	RD Alerts	Term Text	Term Wind	Lightning	Rwy Config
						B O S

Product Status Button Color

Product Display State Product Available Product Unavailable**

Displayed	Green	Red
Partially Displayed*	Yellow	Red
Not Displayed	White	Red

* For gust front forecasts and precipitation levels.

** At least one product associated with active airport and represented by the product status button is unavailable. Available products are displayable even while the button for the product suite remains red.
A label indicating the active airport appears to the right of the set of product status buttons.

Alert Panel

Airport:ATL Mode:ITWS								
1	2	3	4	5	6	7	8	9
A U T O			TDWR		MBA		WSA 20	
					Tornado 10 nm		Lightning 20 nm	
							Gust Front	
							AP	

Example of alert panel for a single-airport ITWS. The order of the boxes from left to right is 1) Airport/Product Display Operational Mode, 2) Mode Transition Indicator, 3) TDWR Backup Status Indicator, 4) Microburst ATIS timer, 5) Wind shear ATIS timer, 6) Tornado, 7) Lightning, 8) Gust front, and 9) AP. Alert buttons (4-9) are grey unless an alert is in effect.

Product Status Button Definitions

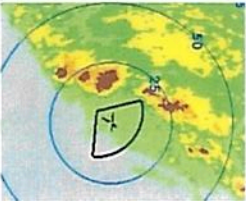
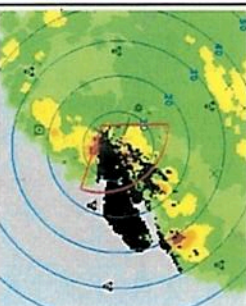
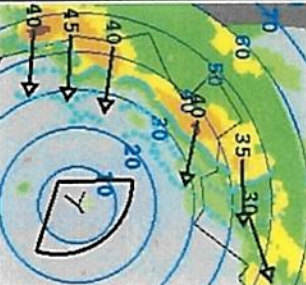
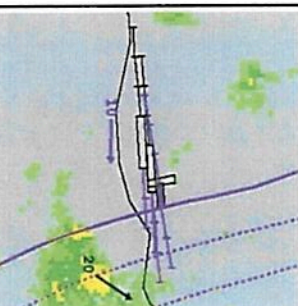
Button Text	Product Name
MB	Microburst
Precip	Precipitation
Stm Exp	Storm Extrapolated Position
Stm Mot	Storm Motion
Stm Cell	Storm Cell Information
Tornado	Tornado
ATIS	Automated Traffic Information Service
GF	Gust Front
ASR	AP-Flagged Precipitation
RD Alerts	Ribbon Display Alerts
Term Text	Terminal Text Message
Term Wind	Terminal Winds
Lightning	Lightning
Rwy Config	Runway Configuration

Color Bar

0	1	2	3	4	5	6	A	X
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The color bars for the TRACON, 100 nm, and 200 nm products contain eight squares corresponding to weather levels zero through six, and X (dark gray) for “no data” where radar coverage is not available. A TDWR product includes an additional “A” square (dark gray) for attenuation. The AP-flagged product includes an additional “AP” rectangle (black) for anomalous propagation. To toggle the display of the color bar, click the “C” Window Configuration button.

Products on the ITWS SD

 Precipitation Six-level precipitation: greens represent lighter precipitation; yellows, oranges, and reds represent heavier precipitation. Range (and product source) are changed via R button at right of the graphics window border. Display of color levels is controlled via the Precip product status button. Display Control: Click the left trackball button on the Precip product status button to toggle between levels 1-6 and None. Click right trackball button to select precipitation levels to be displayed.	 AP-Flagged Precipitation Precipitation from individual ASR radars with AP shown in black. If operationally significant AP exists, the AP alert box turns black. Display Control: Click the left trackball button on the ASR product status button to display the AP-Flagged product for the highest priority ASR radar containing AP. If there is no operationally significant AP, the AP-Flagged product for the highest priority ASR radar is displayed.
 Storm Motion and Storm Extrapolated Position Storm Motion: Black arrow with black number indicates direction of motion and speed in knots of storm cell; black square is speed less than 5 knots. Storm Extrapolated Position: Solid cyan line indicates leading edge of level 3 or greater weather. Dashed cyan lines indicate estimated location of level 3 or greater weather 10 and 20 minutes in the future.	 Gust Front Solid purple line indicates current location of gust front. Dashed purple lines indicate estimated location of gust front 10 and 20 minutes in the future. Purple arrow and number indicate direction and speed of wind behind the gust front. If a gust front is strong enough, it can generate a wind shear with gain alert on the ribbon displays and the alerted runways and/or runway extensions are purple. Gust Front Impact Timer indicates when most imminent gust front is expected to arrive at the airport. A purple timer without a number indicates a gust front is on the airport. Display Control: Click the left trackball button on GF product status button to toggle forecasts.
 Microburst and Wind Shear Microburst: Filled red circles with white numbering (30 kts or greater) indicate potential airspeed loss in knots. Wind Shear: Open red circles with red numbering (between 15 and 30 knots) indicate potential airspeed loss in knots. Alerted runways and/or runway extensions are red.	 Tornado Detection: Open black circle containing inverted triangle indicates possibly tornadic storm. Alert: Box turns black if a possibly tornadic storm is within 10 nm of the airport. Lightning Alert box turns yellow if cloud-to-ground lightning is detected within 20 nm of the airport.

Products on the ITWS SD

EWB - Storm Cell Information

HAIL
SEVERE STORM CIRCULATION
ECHO TOP: 520+

Close

Storm Cell Information

Text window indicates presence of hail, lightning, severe storm circulation, and an estimate of echo top. Closes automatically after 30 seconds.

Display Control: Click left trackball button on the desired storm cell in a graphics window.

EWB - Ribbon Display Alerts

Newark

CR 300 27
0414L N5A 25K+ 1MD
0444L N5A 25K+ 1MD
0444L N5A 25K+ 1MD
11 A N5A 25K+ RHY
11 B N5A 25K+ RHY

Close

Ribbon Display Alerts

Text product shows runway configuration in use and ribbon display messages.

Display Control: Click left trackball button on RD Alerts product status button to toggle window display or to bring window forward if in background.

EWB - Runway Configuration

Newark

Active Runways	NEWARK TOWER	NEW YORK TRACON
TC1	TC2	TC3
0414L	0414L	0414L
0444L	0444L	0444L
0444L	0444L	0444L
11 A	11 A	11 A
11 B	11 B	11 B

Close

Runway Configuration

Text product shows runway configuration in use and mapping of runways to lines on the ribbon displays.

Display Control: Click left trackball button on RwyConfig product status button to toggle window display or to bring window forward if in background.

In the event of a problem with the ITWS, please call:

MBA 20 WSA

ATIS Timers

Countdown timers that help manage ATIS messages. Buttons that are not gray and do not contain a number indicate that alerts are in effect. Buttons that are not gray and contain a number indicate that alerts have ended and the countdown timer is active. PIREPS may be entered or withdrawn by TRACON or tower SDs.

PIREP entry: Click left trackball button on appropriate MBA or WSA button and then confirm. (Permission to enter PIREPs is facility specific).

PIREP withdraw: Click right trackball button on appropriate MBA or WSA button and then confirm. (Permission to enter PIREPs is facility specific).

PHL - Terminal Winds

(ALT DIR SPD)

BURTS	MAZTE
150 220 24	150 230 21
130 220 26	130 240 22
110 230 21	110 250 27
090 230 21	090 250 27
070 230 20	070 250 27
050 190 11	050 250 12

TERRE	ALPHE	VEN
150 230 33	050 260 18	150 230 29
130 220 43	040 250 14	130 220 26
110 220 43	030 250 14	110 220 26
090 240 24	020 050 12	090 240 26
070 230 26	010 050 16	070 230 31
050 240 20		050 260 19

Close

Terminal Winds

Table provides wind direction and speed at selected locations and altitudes.

Display Control: Click left trackball button on the Term Wind product status button to toggle window display or to bring window forward if in background.

PHL - Terminal Text

PHL 1317
ATWS TERMINAL WX
MODERATE PRECIP
BEGAN 1302
-STORM(S)
AT ART MOD PRECIP
3NM NW-E HAV PRECIP
7NM SW-W MOD PRECIP
MOVE NE AT 76 KT
EXPECTED HAV PRECIP
BEGIN 1320
PREVIOUS HAV PRECIP
BEGAN 1254 END 1316

Close

Terminal Weather Text Message

Text product shows current terminal weather text message available to flight crews.

Display Control: Click left trackball button on the Term Text product status button to toggle window display or to bring window forward if in background.