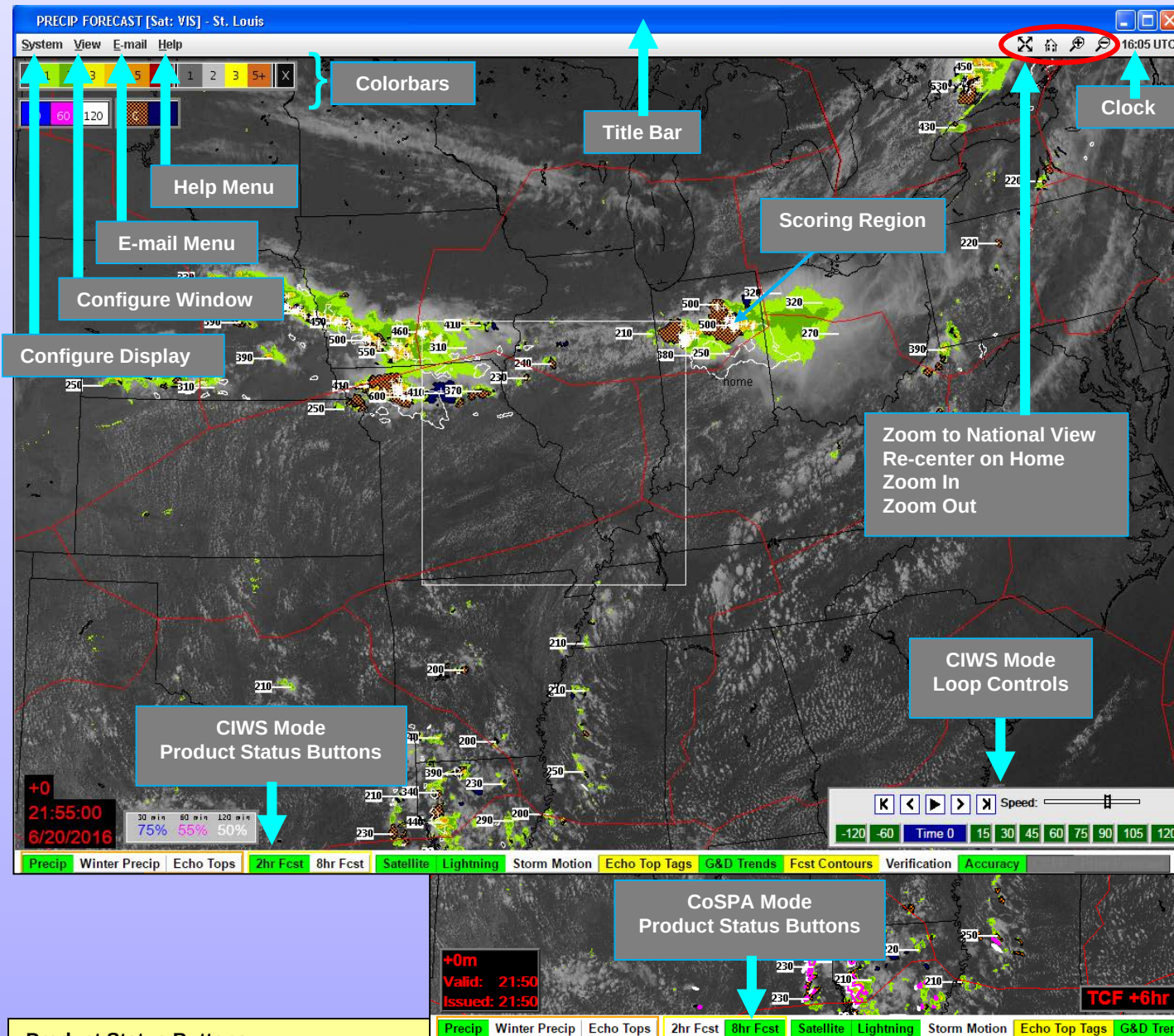
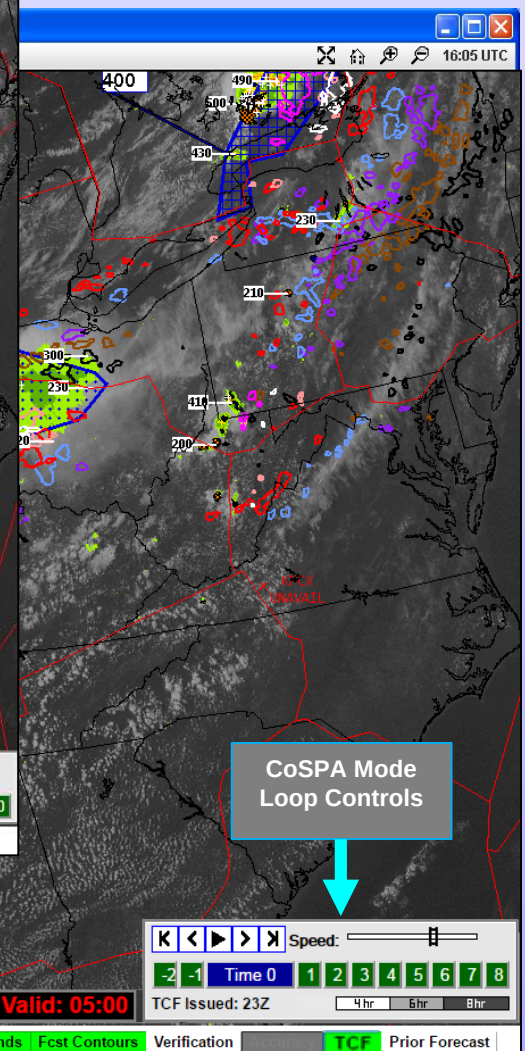


CIWS Mode

Situation Display Layout



CoSPA Mode



Product Status Buttons

- Indicate product availability: Green = Available, Red = Unavailable, Yellow = Filtered, White = Available and turned off.
- Right click displays dialog box and offers filter options, left click toggles product display between product-specific settings.

MIT Lincoln Laboratory CIWS Network Operations Center (800) 570-4851 *

*If there is no answer within four rings, your call will be forwarded to an answering service. Please leave a message, including your name and phone number. The CIWS operations team will be paged automatically and someone will return your call as soon as possible.

This work was sponsored by the Federal Aviation Administration under Air Force Contract No. FA8721-05-C-0002. Opinions, interpretations, conclusions, and recommendations are those of the authors and are not necessarily endorsed by the United States Government.

Situation Display User Interface

March 2018

System Menu

New Window

☐ Zoom Out to National View

1 2 3 4 5 6 7 8 9 0 - _
q w e r t y u i o p
Caps a s d f g h j k l Enter
z x c v b n m , < > Del

Type In Home Name or Airport ID Code:

OK Apply Cancel

Or

Select from List:

Region	Home
☒ Canadian	☒ YAM - Sault Ste. Marie
☐ ZAB,ZOA,ZLA	☐ YMX - Montreal
☐ ZAU,ZKC,ZME	☐ YOW - Macdonald-Cartier
☐ ZDV,ZSE,ZMP,ZLC	☐ YUL - Pierre Elliott Trudeau
☐ ZHU,ZFW	☐ YVR - Vancouver
☐ ZID,ZDC	☐ YWG - Winnipeg
☐ ZJX,ZTL,ZMA	☐ YYZ - Toronto
☐ ZNY,ZBW	
☐ ZO8	

OK Apply Cancel

System

New Window...

Window Configuration...

Close

Window Configuration

Select Configuration:

Factory Default
Default
my-window-config

Delete

Restore Windows Add Windows

Save Current Configuration As:

Save

1 2 3 4 5 6 7 8 9 0 - _
q w e r t y u i o p
Caps a s d f g h j k l Enter
z x c v b n m , < > Del

Close

Context Menus

Right click on
window background then
left click on desired option

Zoom In
Zoom Out
Center Map Here
Center on Home
Play
Previous Frame
Next Frame
Time Zero
Manage Overlays...

Right click on
overlay in window then
left click on desired option

Hide J6
Hide Label
Color
Hide All Jet Routes
Hide Labels
Color
Zoom In
Zoom Out
Center Map Here
Center on Home
Play
Previous Frame
Next Frame
Time Zero
Manage Overlays...

Email - send benefits information, queries, comments, etc. to
CIWS team

E-mail

Compose with Image...
Compose...

Email Comments to MIT Lincoln Laboratory

Please include your name and telephone number or email address if you would like to be contacted to discuss the email.

To: Operations Center
cc:
Subject:

Add your e-mail address to receive a copy. Attached image (if any) is in png format. If the message is for your use only, please indicate this in the subject line or message text.

~ 1 2 3 4 5 6 7 8 9 0 - _ + = \ ! # \$ %
Tab q w e r t y u i o p () & @ *
Caps a s d f g h j k l ; : ' " Enter
Space z x c v b n m , < . > / ? Del

Send Close

View Menu

When checked, respectively:

- Displays Loop Controls
- Displays virtual keyboards on all dialog boxes, where available
- Changes overlays to white when cursor passes over
- Displays color bars
- Displays clock in menu bar
- Displays latitude and longitude of cursor location in menu bar

CoSPA window only

CoSPA window only. Format Loop Time display.

+4h 00m
Valid: 7/29/2009 16:05
Issued: 7/29/2009 12:05

Manage Overlays

Add Overlays

1 2 3 4 5 6 7 8 9 0 - _

q w e r t y u i o p

Caps a s d f g h j k l Enter

z x c v b n m , < - > Del

Type In Overlay(s): Add Browse...

Overlay List

Visible	Label	Color
☒	Airports	☒
☒	ARTCCs	☒
☒	Boundaries	☒
☒	Jet Routes	☒
☒	J6	☒
☒	J42	☒
☒	J73	☒
☒	J80	☒

More Options >>

Remove Overlays

Select Overlays to Remove

☒ All

☒ Airports

☒ ARTCCs

☒ Boundaries

☒ Jet Routes

☒ J6

☒ J42

☒ J73

☒ J80

Remove Cancel

Overlay Groups

Select Group:

Factory Default

my-overlays

Pacing_Airports

Delete

Restore Overlays Add Overlays Show Group

Save Current Overlays As: Save

1 2 3 4 5 6 7 8 9 0 - _

q w e r t y u i o p

Caps a s d f g h j k l Enter

z x c v b n m , < - > Del

Close

my-overlays Overlay Group

Overlay List

Visible

☒ Airports

☒ ARTCCs

☒ Boundaries

☒ Jet Routes

☒ J6

☒ J42

☒ J73

☒ J80

Change Home

☐ Zoom Out to National View

1 2 3 4 5 6 7 8 9 0 - _

q w e r t y u i o p

Caps a s d f g h j k l Enter

z x c v b n m , < - > Del

Type In Home Name or Airport ID Code:

OK Apply Cancel

Or

Select from List:

Region

☒ Canadian

☐ ZAB, ZOA, ZLA

☐ ZAU, ZKC, ZME

☐ ZDV, ZSE, ZMP, ZLC

☐ ZHU, ZFW

☐ ZID, ZDC

☐ ZJX, ZTL, ZMA

☐ ZNY, ZBW

☐ ZOB

Home

☒ YAM - Sault Ste. Marie

☐ YMX - Montreal

☐ YOW - Macdonald-Cartier

☐ YUL - Pierre Elliott Trudeau

☐ YVR - Vancouver

☐ YWG - Winnipeg

☐ YYZ - Toronto

OK Apply Cancel

Recenter on Location

Set center of map to coordinates:

Decimal Degrees

Latitude: 41.7733

Longitude: -82.2681

Degrees Minutes Seconds

Latitude: 41 46 24

Longitude: -82 16 05

OK Apply Cancel

Loop Settings

Dwell On Time 0 (sec): 0 1 2 3 4 5

Restore Factory Defaults

Animation Loop Limits:

Past Weather: K -120 minutes

Forecast: K -120 minutes

Interval: 5 min

OK Apply Cancel

View E-mail Help

Manage Overlays...

Overlay Groups...

Change Home...

Recenter on Location...

Radars Data Loss...

Loop Settings...

☒ Loop Controls

☒ Virtual Keyboards

☒ Mouse Highlight

☒ Color Bar

☒ Menu Clock

☒ Show Lat/Long

Loop Time ☒ Show Date

☒ Show Year

☒ Show Issued Time

Radars Data Loss

☒ NEXRAD

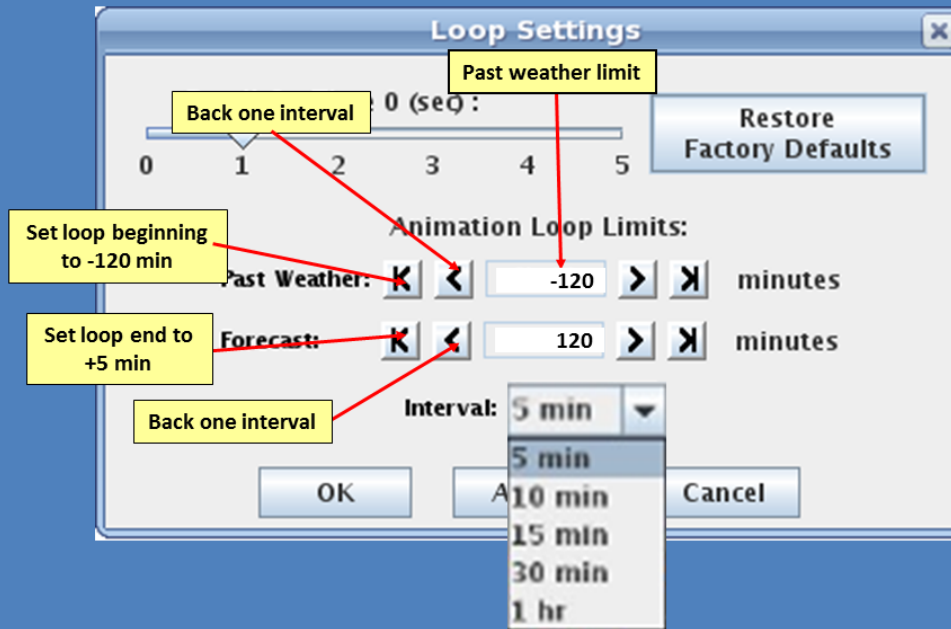
☒ TDWR

☒ Canadian Radar

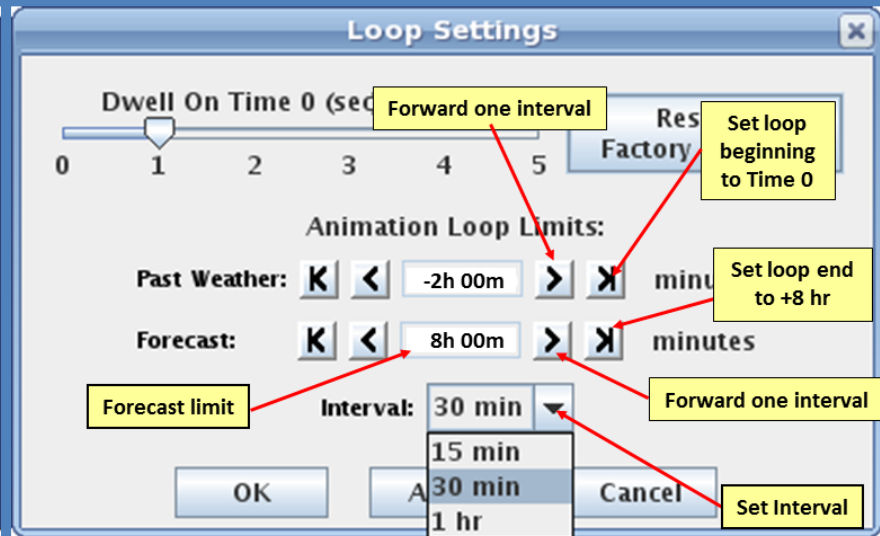
OK Apply Cancel

Loop Settings and Controls

CIWS Loop Settings Options

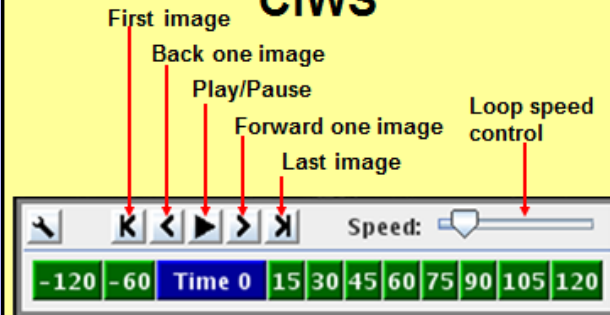


CoSPA Loop Settings Options

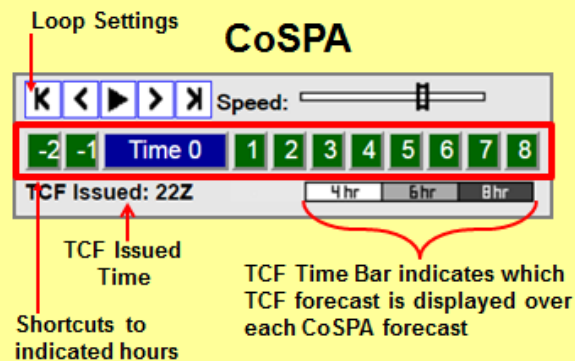


Loop Controls

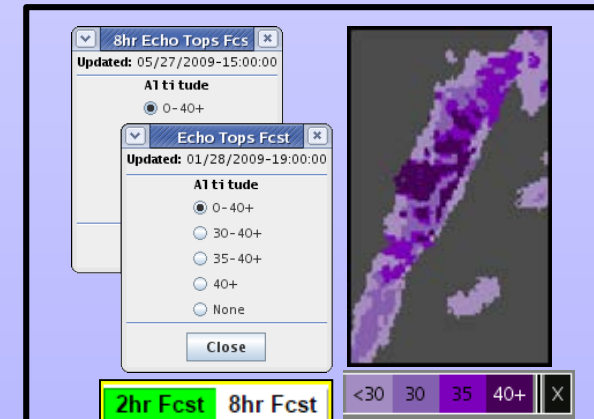
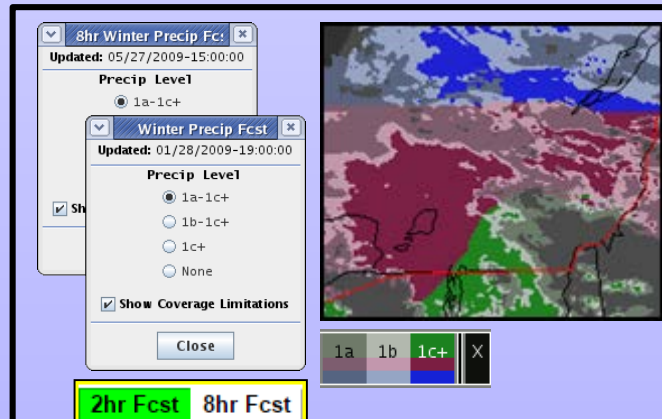
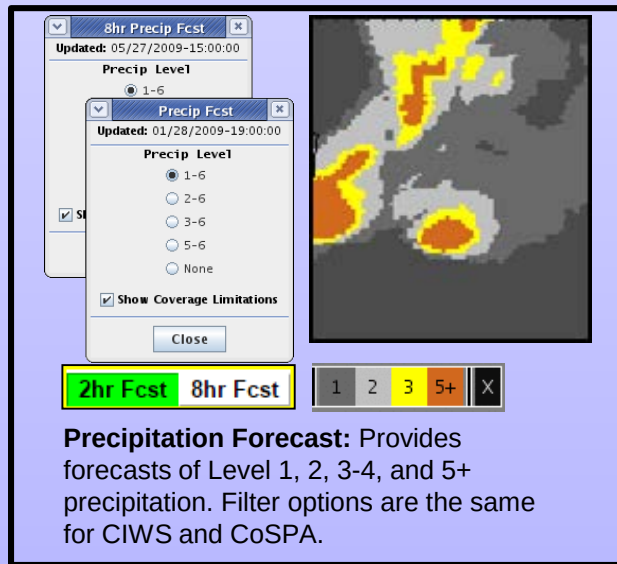
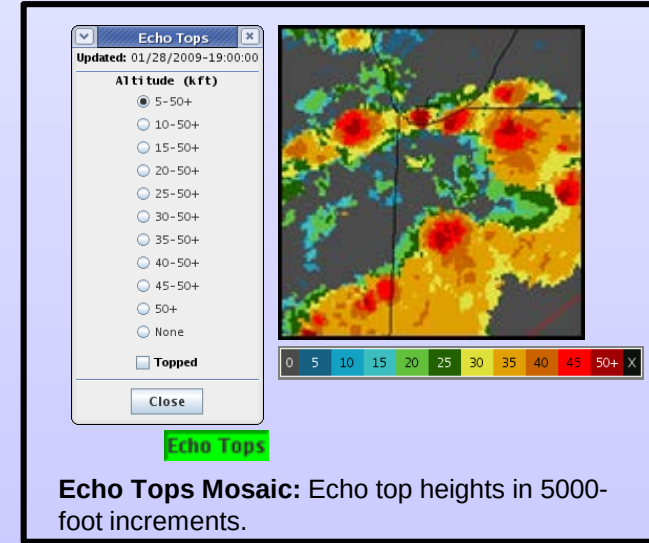
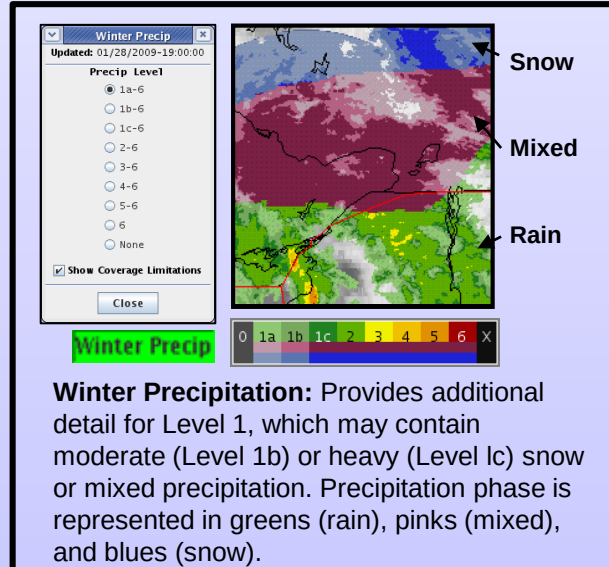
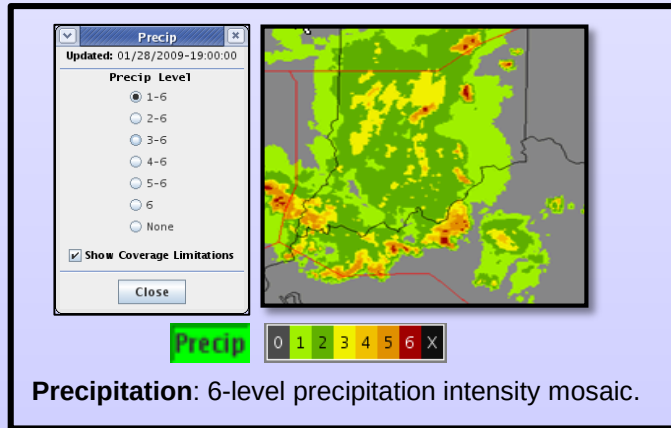
CIWS



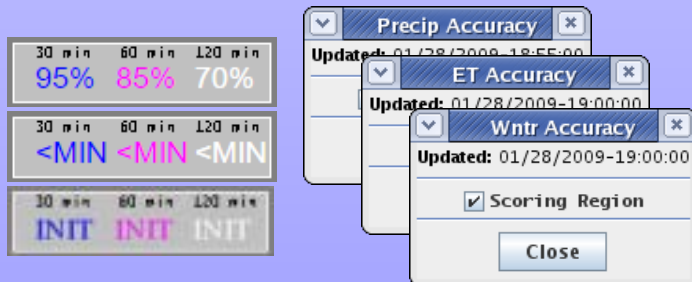
CoSPA



Base Products and Their Forecasts



CIWS Only



CoSPA Only

Aged Model – Potentially Degraded

Displayed when HRRR is not received after 4:40 hrs.
CoSPA is unavailable if HRRR is not received after 7:40 hrs.

Contour Products

March 2018

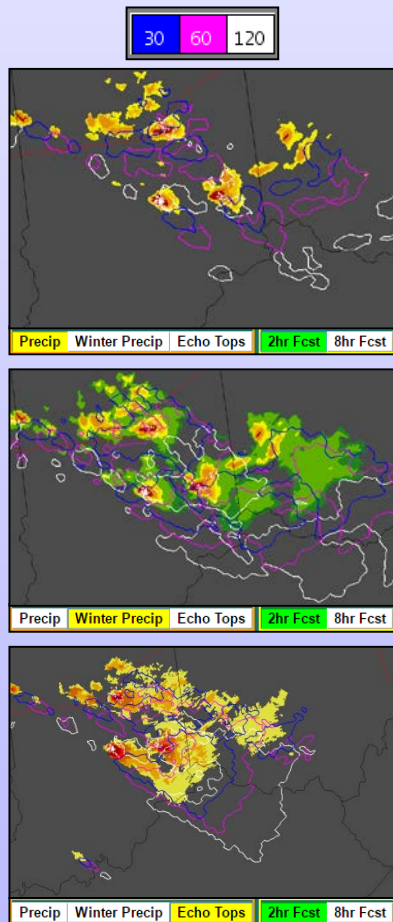
CIWS

Fcst Contours

CoSPA

Verification

CoSPA



ET Fcst Contours

Updated: 01/28/2009-19:00:00

Wntr Fcst Contour

Updated: 01/28/2009-19:00:00

Precip Fcst Contour

Updated: 01/28/2009-19:00:00

☒ Time 0 Only

Contour Type

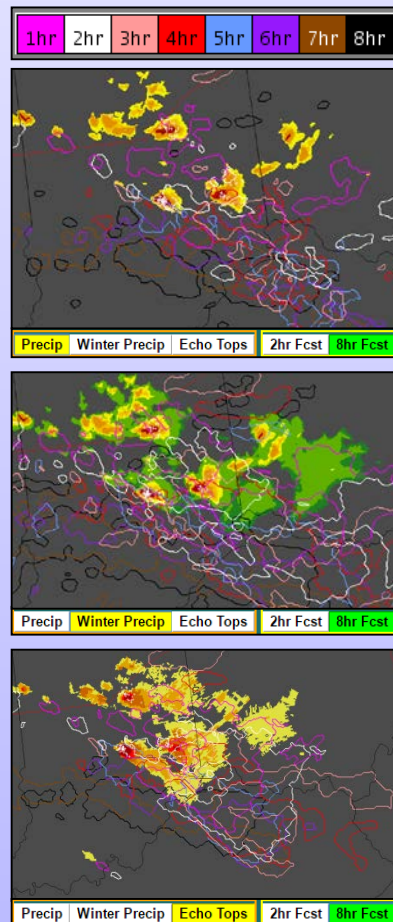
☒ 30 min

☒ 60 min

☒ 120 min

Close

Forecast Contours: Contours of current forecasts of Level 3+ (Precip) or Level 1c+ (Winter Precip) or 30+ kft (Echo Tops) displayable at time 0 only. Not displayable simultaneously with Verification Contours.



8hr ET Fcst Contour

Updated: 01/28/2009-23:00:00

8hr Wntr Fcst Contour

Updated: 01/28/2009-23:00:00

8hr Precip Fcst Contour

Updated: 01/28/2009-23:00:00

☒ Time 0 Only

Contour Type

☒ 1hr

☒ 2hr

☒ 3hr

☒ 4hr

☒ 5hr

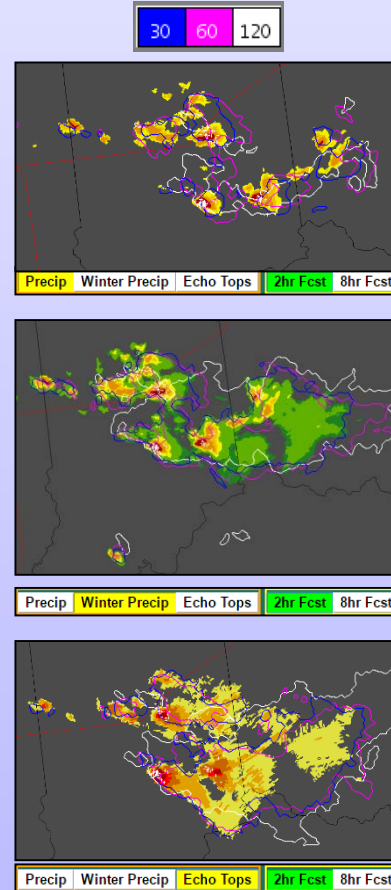
☒ 6hr

☒ 7hr

☒ 8hr

Close

CIWS



ET Verification

Updated: 01/28/2009-19:00:00

Wntr Verification

Updated: 01/28/2009-19:00:00

Precip Verification

Updated: 01/28/2009-19:00:00

☐ Time 0 Only

Contour Type

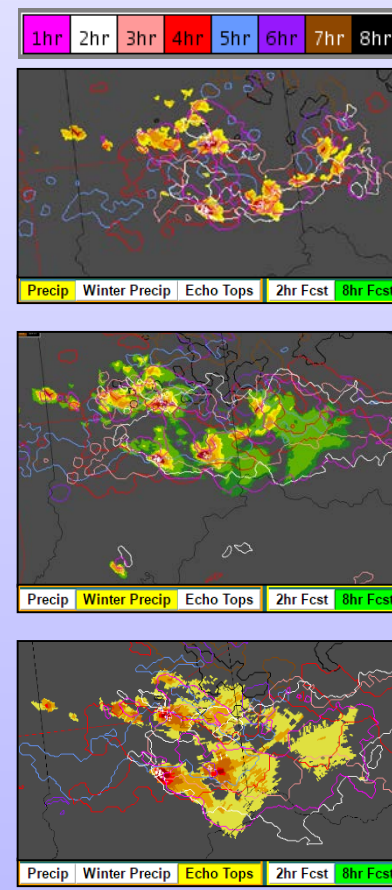
☒ 30 min

☒ 60 min

☒ 120 min

Close

Verification Contours: Contours of past forecasts of Level 3+ (Precip) or Level 1c+ (Winter Precip) or 30+ kft (Echo Tops). Displayable on corresponding past and current base product images. Not displayable simultaneously with Forecast Contours.



8hr ET Verification

Updated: 01/28/2009-23:00:00

8hr Wntr Verification

Updated: 01/28/2009-23:00:00

8hr Precip Verification

Updated: 01/28/2009-23:00:00

☐ Time 0 Only

Contour Type

☒ 1hr

☒ 2hr

☒ 3hr

☒ 4hr

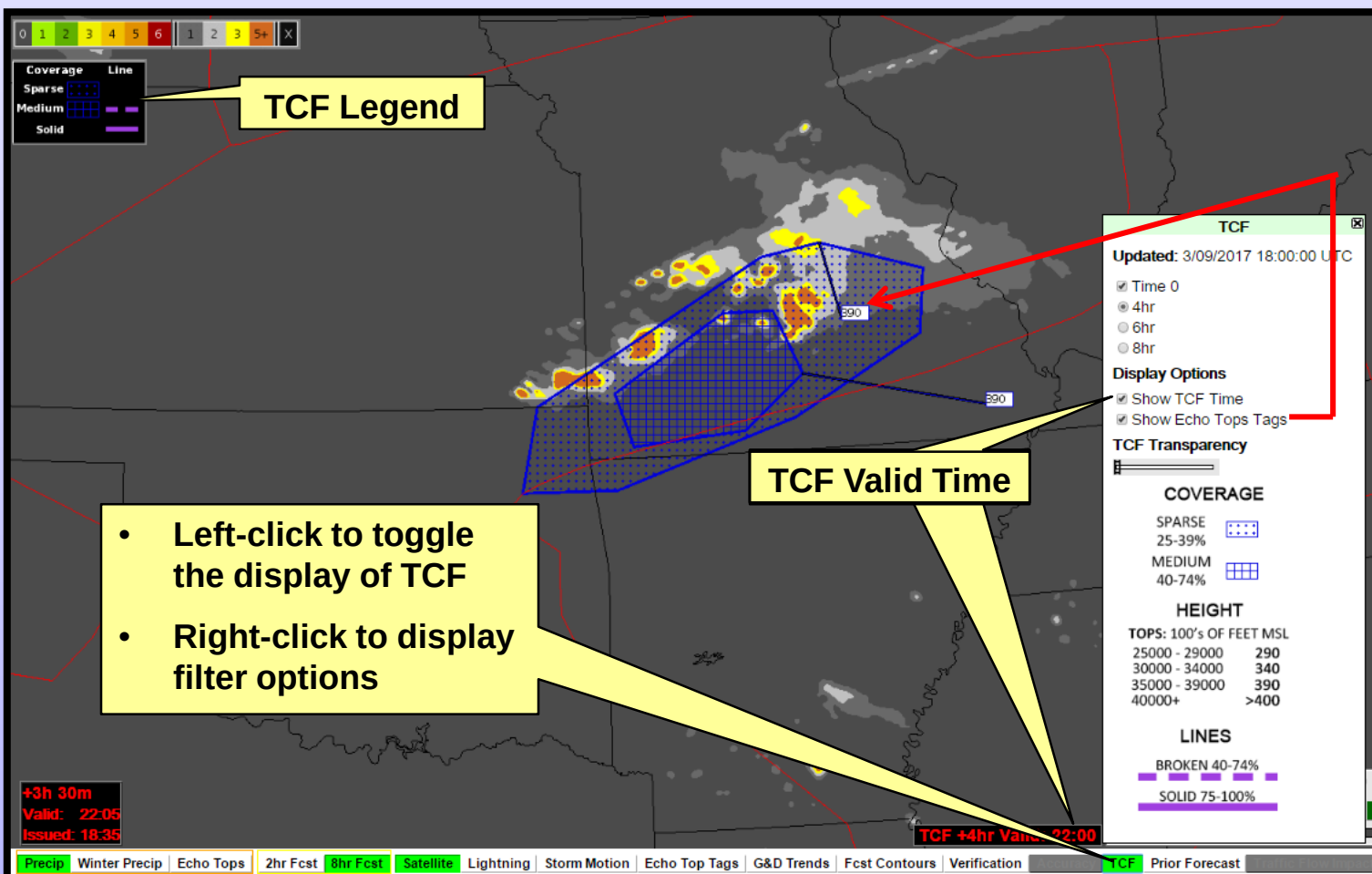
☒ 5hr

☒ 6hr

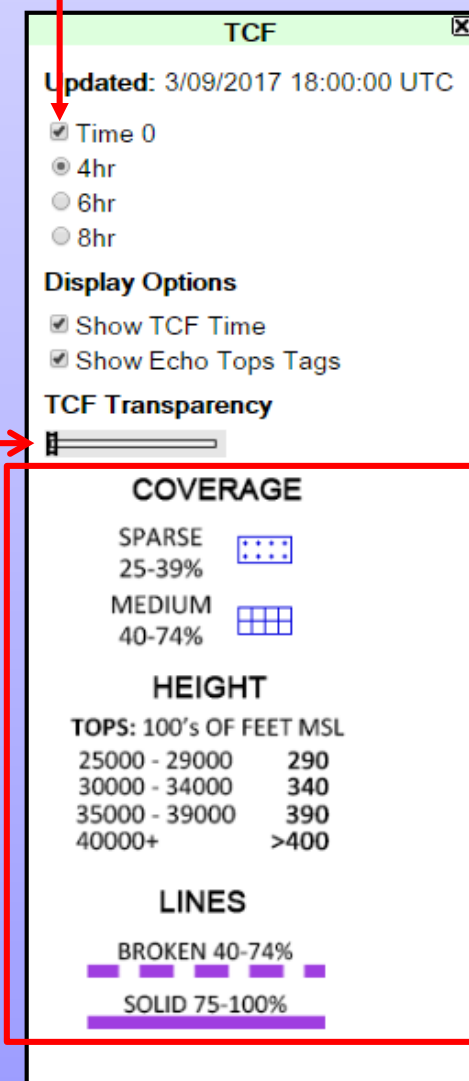
☒ 7hr

☒ 8hr

Close



Time 0 – Select the TCF forecast to be displayed at Time 0



TCF Transparency - Move slider left to make TCF overlays more opaque; right for more transparent

Legend

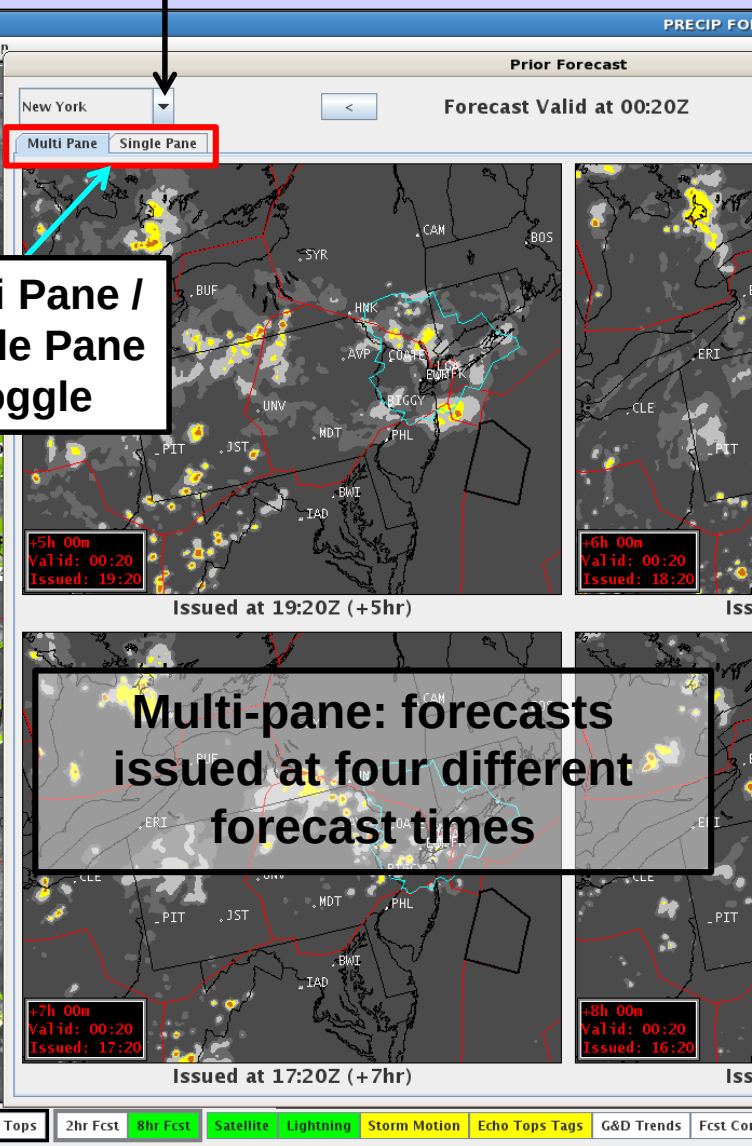
Prior Forecast Product

Displays forecasts issued at different forecast times for the same valid time.

Select
Forecast Valid Time

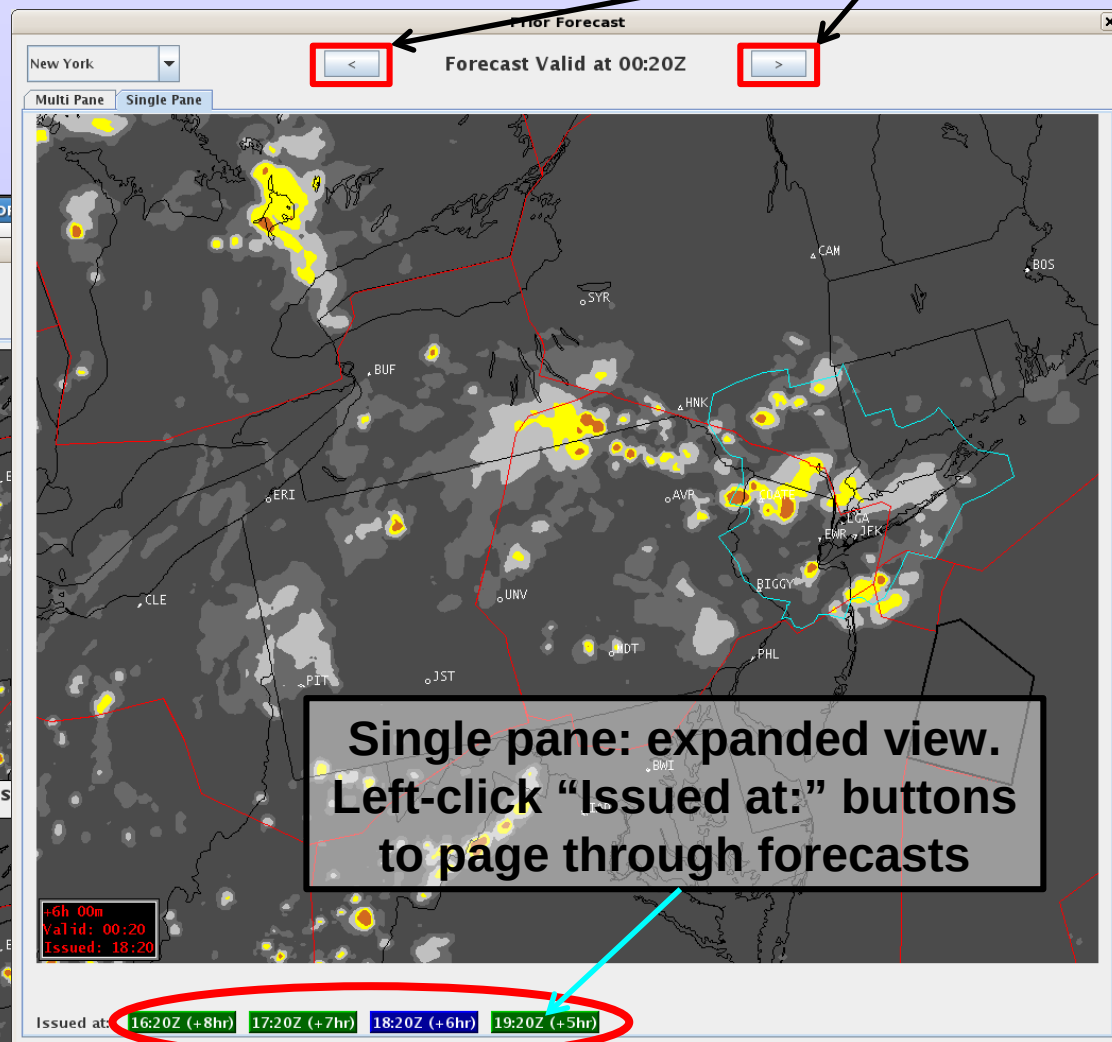
Select
Region

New York
New York
Washington DC
Atlanta
Chicago
Florida/Gulf Coast
Dallas/Houston
Denver
Midwest



Multi Pane /
Single Pane
Toggle

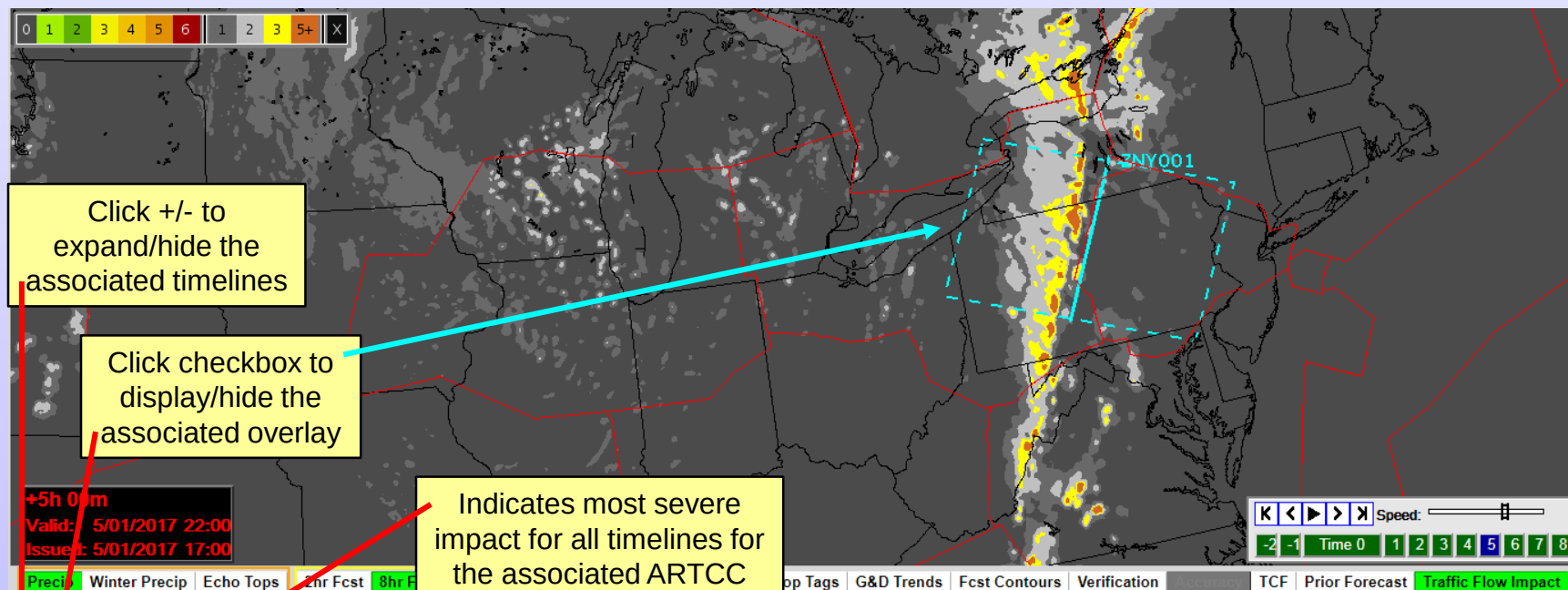
Multi-pane: forecasts
issued at four different
forecast times



Single pane: expanded view.
Left-click "Issued at:" buttons
to page through forecasts

Toggle product display.
No right-click filter options

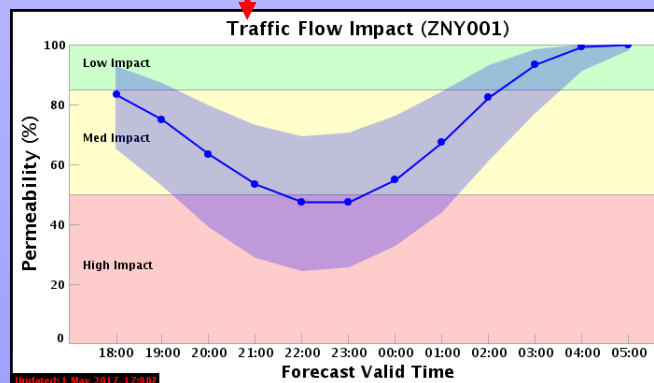
Traffic Flow Impact Product



☐	ZNY		18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00
☒	ZNY001									
☐	ZNY01A									
☐	ZNY01B									
☐	ZNY002									
☐	ZNY003									
☐	ZNY006									
☐	ZOB		18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00
☐	ZDC		18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00

Click TFI region name to open the window for the associated permeability plot

Click checkbox to display/hide all TFI regions for the associated ARTCC



Traffic Flow Impact

Updated: 02/16/2018-18:30:00

Traffic Flow Regions

- ☒ ZNY
- ☒ ZOB
- ☒ ZDC
- ☒ ZBW
- ☒ ZJX

Close