

Using the River Product Formatter (RiverPro)
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RiverPro (Hydrologic Product Formatter)

RiverPro is the product formatter application component of WFO Hydrologic Forecast System (WHFS) which is used for creating hydrologic products for river forecast points. This application utilizes observed data, reference data, and forecast guidance to automatically create products for public dissemination. The application provides a great deal of flexibility in the format and content of the products. This flexibility comes at a price, however. The specific content of the products is controlled by a series of templates. The templates must be customized to fit the customer needs of each office, this is the price of the flexibility.

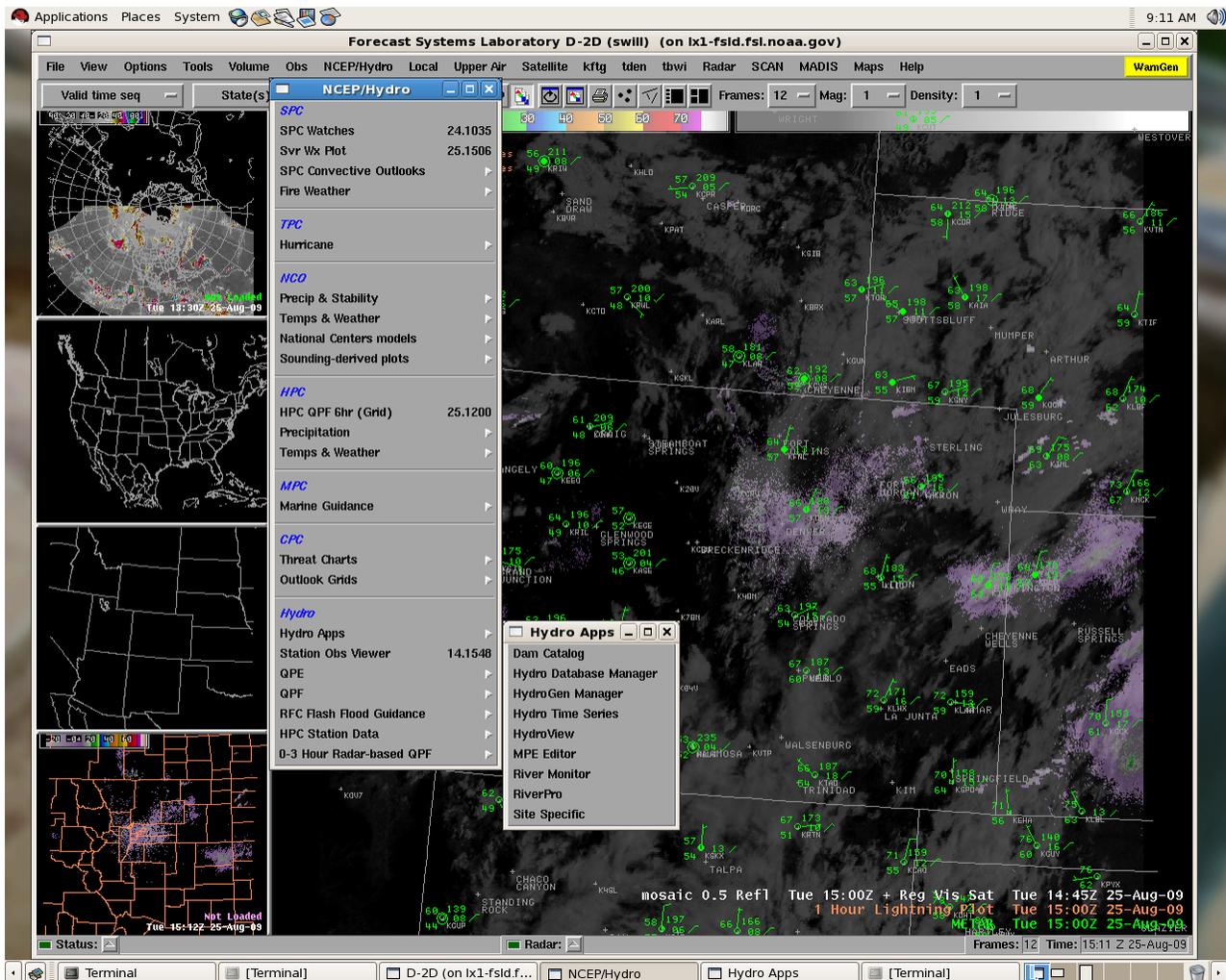
A product (always the most severe) is recommended each time RiverPro is opened. This recommendation is based on maximum observed stages, forecasts, and previously issued products. The recommendation will include the type of recommended product and the forecast points to be included in it. The recommendation can be overruled by the forecaster by selecting another product and/or selecting or deselecting forecast points to be included.

Reference data for all forecast points can be viewed from within the RiverPro application. Information such as flood categories, impacts, crest histories, and persons to contact is available for view. Observational and forecast data is also available for view in table form from within the application. All of this information can be used by the forecaster in deciding what product to issue, which points the product should contain, and what information to include for each product.

The forecaster can then have RiverPro create a product. The created product is then displayed on the screen in a text editor. The forecaster can review the product, edit it if necessary, and then either choose to issue it or save it for later retrieval and editing.

Launching RiverPro

The user launches RiverPro one of two ways. Firstly, RiverPro can be started from AWIPS D2D by selecting *NCEP/Hydro > Hydro Apps > RiverPro* as illustrated below:



or from the AWIPS Start-up Menu when the user logs in from the application launcher.

RiverPro Product Generation

1. After selecting RiverPro, the application opens, showing the user a recommended product, always the most severe, and which forecast point(s) to include in the generated product. RiverPro will make recommendations on which product to generate based on the current or forecast stage compared to reference stages for the gage. The recommendation can be overruled by the forecaster by selecting another product and/or selecting or deselecting forecast points to be included.
2. [RiverPro image here...]
3. On the right side of the application, scroll down (using the scroll bar along the far right side) and choose the forecast points you want (or click the river/stream name if you want all the points underneath included) in the product, left clicking on the point/stream to select and deselect.
4. To change the recommendation, select the product under **Product to Generate** on the left side of the window.

5. Product sections can be modified by clicking on the top horizontal menu, **Settings > Modify Product Sections**. These product generation settings dictate the format and content of the product. The forecaster may also make changes to the expiration time of the product on the upper right corner of the window. To change Valid Time Event Code (VTEC) setting in the product, select **Settings > Modify VTEC Settings**.
6. Clicking Mouse Button 1 (MB1) on the top horizontal menu, **Product > Create** to generate the flood product.
7. The created product is then displayed in a text editor for the forecaster to review.
8. After the forecaster has finished editing the text product, select on the top horizontal menu **File > Save**. The user then selects **File > Quit**.
9. To issue the product, the forecaster selects **Issue > Issue Product**. This brings up a small pop-up window. In this window select **Send** to issue the product.