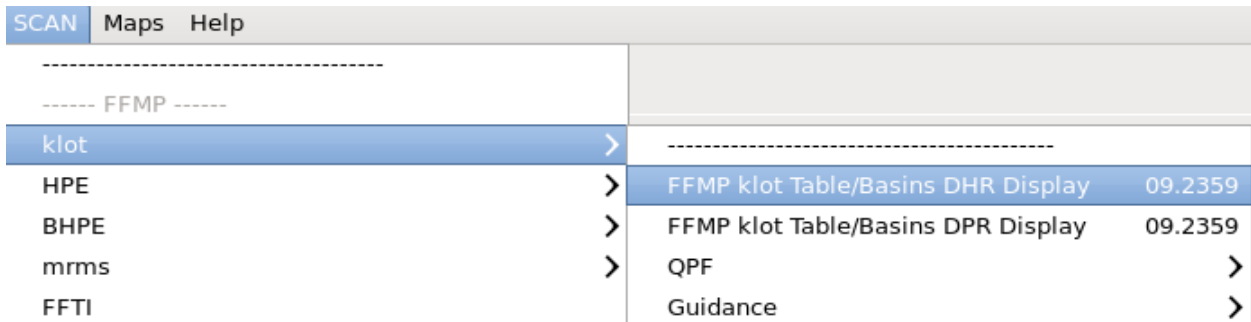


Jobsheet #3: Loading ARI data from the FFMP Basin Trend Graph

Loading ARI data in the FFMP Basin Trend Graph

1. Load FFMP for any precip source (e.g. SCAN-> FFMP \$radar Table/Basins DHR Display)
 - o e.g. SCAN-> FFMP klot Table/Basins DHR Display for the klot Legacy DHR precip source



2. Load a basin trend by:

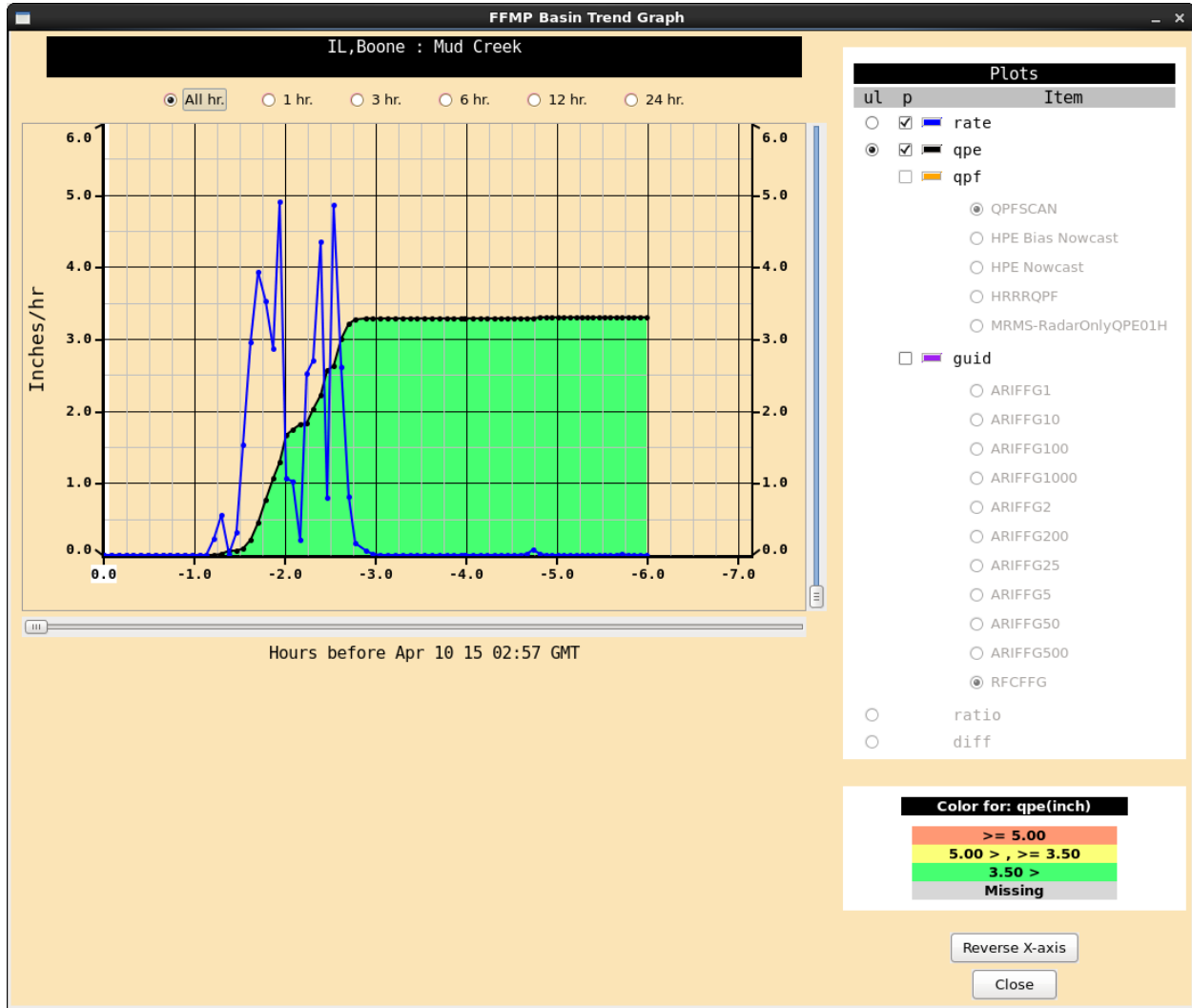
1. Right clicking on a basin name in the FFMP table or

The screenshot shows the 'FFMP Basin Table klot' window. At the top, there is a menu bar with 'File', 'Config', 'D2D', 'Layer', 'Zoom', 'CWA', and 'Click'. Below the menu bar, there are several controls: 'Refresh D2D', 'Config Summary', a date/time display 'Apr 10 15 02:57:51 GMT', and 'Clear Trace'. There is also a 'Gap' control set to 0.00 and a 'Time Duration (hrs.)' slider set to 6.00. Below these controls, there is a 'Rate' control and a horizontal axis with markers at 0.00, 3.00, 6.00, 9.00, 12.00, 15.00, 18.00, 21.00, and 24.00. On the right side, there are buttons for 'Thresholds' and 'Attributes...'. The main part of the window is a table with the following columns: NAME, RATE, QPE, ARIFFG10 GUID, ARIFFG10 RATIO, ARIFFG10 DIFF, RFCFFG GUID, RFCFFG RATIO, and RFCFFG DIFF. The table contains 18 rows of data for various basins.

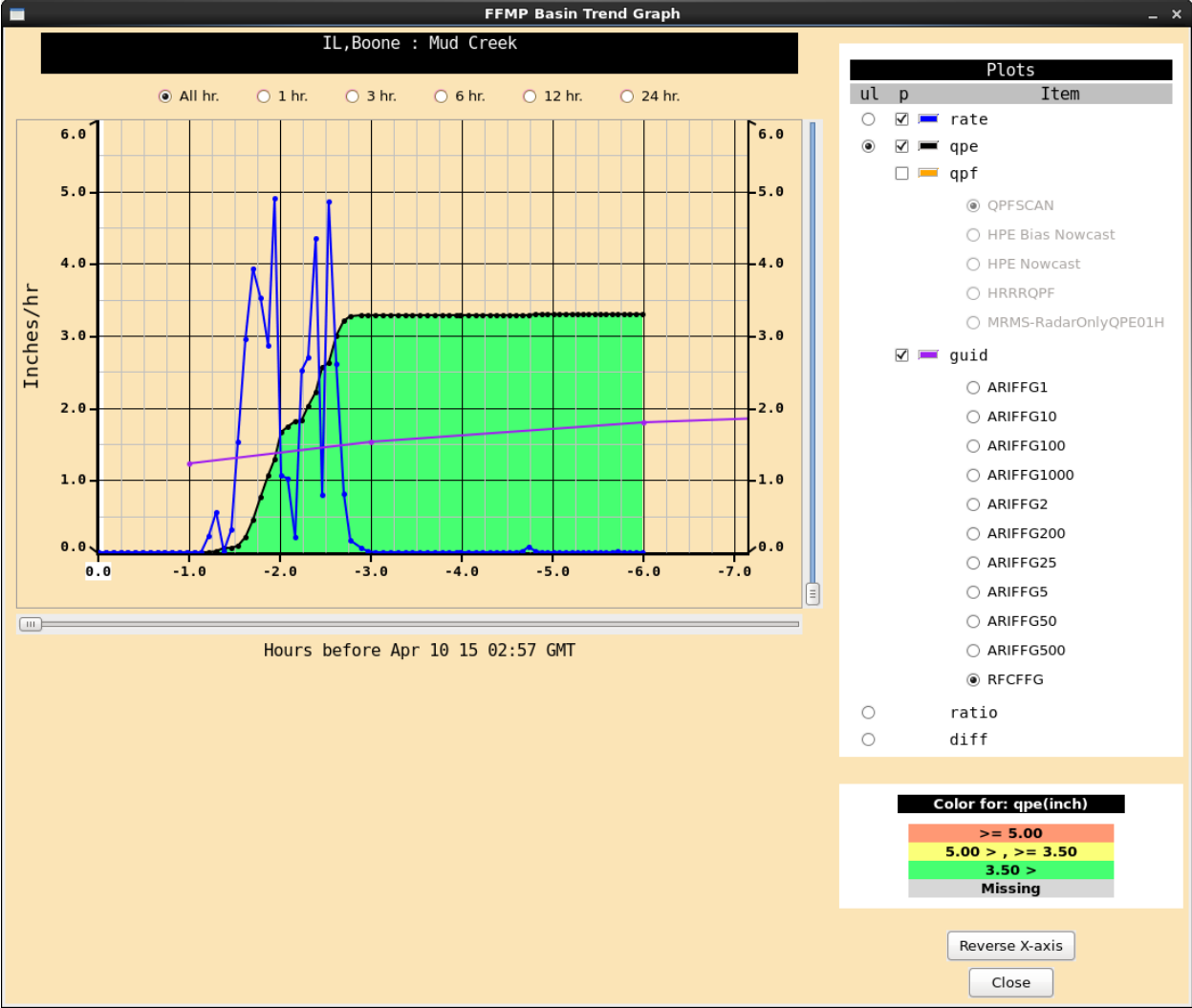
NAME	RATE	QPE	ARIFFG10 GUID	ARIFFG10 RATIO	ARIFFG10 DIFF	RFCFFG GUID	RFCFFG RATIO	RFCFFG DIFF
Mud Creek	0.00	3.30	3.16	104	0.14	2.12	156	1.18
XXXX	0.00	3.12	3.15	99	-0.03	2.05	152	1.07
Rush Creek	0.00	2.94	3.14	93	-0.20	2.05	143	0.89
Tributary to Mud Creek 6S of Capron	0.00	2.84	3.15	90	-0.31	2.05	139	0.79
Rock River	0.00	2.86	3.18	90	-0.32	2.24	127	0.62
Rock River	0.00	2.80	3.18	88	-0.38	2.24	125	0.56
Rush Creek	0.00	2.71	3.13	87	-0.42	2.01	135	0.70
Kishwaukee River	0.00	2.76	3.16	87	-0.40	2.09	132	0.67
Rush Creek	0.00	2.74	3.14	87	-0.40	2.01	136	0.73
Kishwaukee River	0.00	2.74	3.17	86	-0.43	2.05	134	0.69
Mud Creek	0.00	2.70	3.15	86	-0.45	2.13	127	0.57
Kishwaukee River	0.00	2.70	3.18	85	-0.48	2.09	129	0.61
Kishwaukee River	0.00	2.67	3.18	84	-0.51	2.09	128	0.58
Tributary to Rush Creek 4S of Harvard	0.00	2.62	3.13	84	-0.51	1.93	136	0.69
Rush Creek	0.00	2.58	3.14	82	-0.56	1.97	131	0.61
Rush Creek	0.00	2.52	3.13	80	-0.61	1.99	126	0.53

2. Configuring the Click menu in the FFMP table to be "Basin Trend", making FFMP legend text editable, and then right clicking on a basin.

3. In the basin trend click on the **guid** button

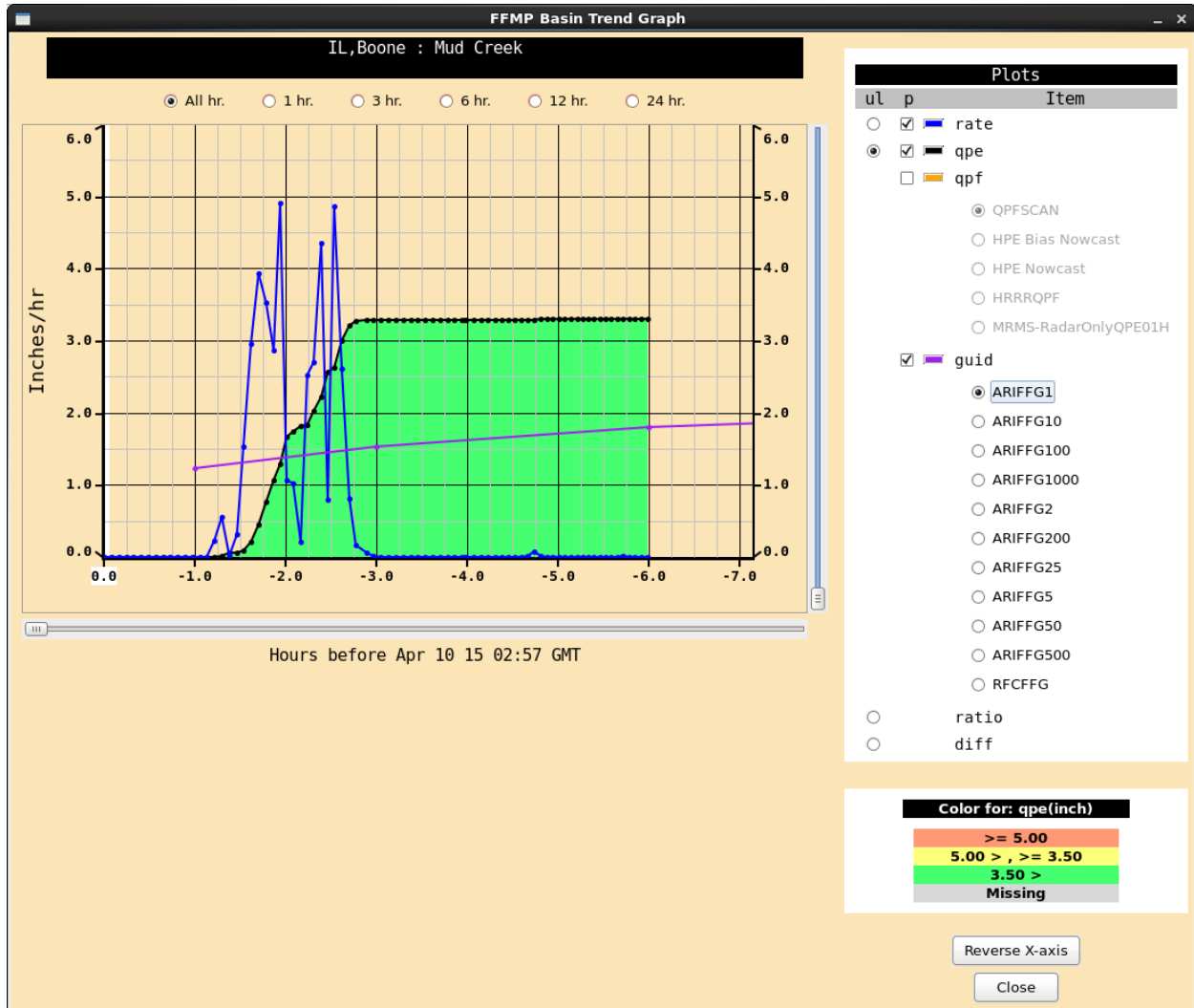


- Note: FFG is typically the default guidance overlay, with magenta dots at 1-hr, 3-hr, and 6-hr representing the basin-averaged flash flood guidance for these durations from the RFCs (1-hr FFG ~ 1.25", 3-hr FFG ~ 1.5", and 6-hr FFG ~ 1.9" in. Also note the black line represents the precip accumulation over that duration (e.g. 3.3" at -3.0 is a 3-hr precip accumulation of 3.3").



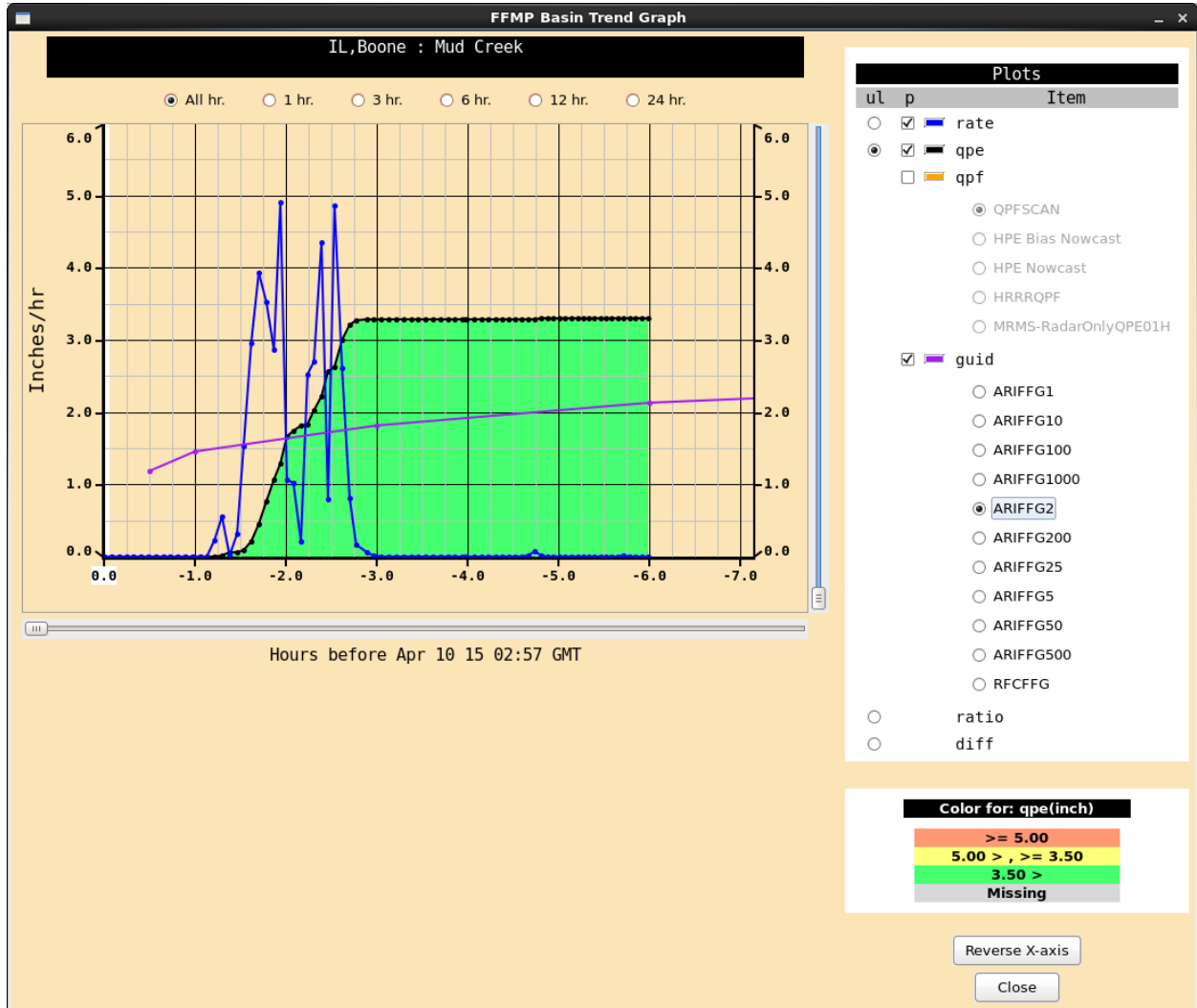
4. Select **ARIFFG1** to view the guidance line for the 1-year ARI.

- The magenta dots are now the basin-averaged 1-year ARIs for 30-min, 1-hr, 3-hr, 6-hr etc. durations. When the black line (precipitation accumulation) is higher than the value of the ARI for that duration (indicated by the magenta line), you have exceeded the precip associated with that ARI.
- In the plot, the 1-year 3-hr ARI is ~ 1.5", while the 3-hr accumulation is ~3.3". So we have exceeded the 1-year ARI for this duration.

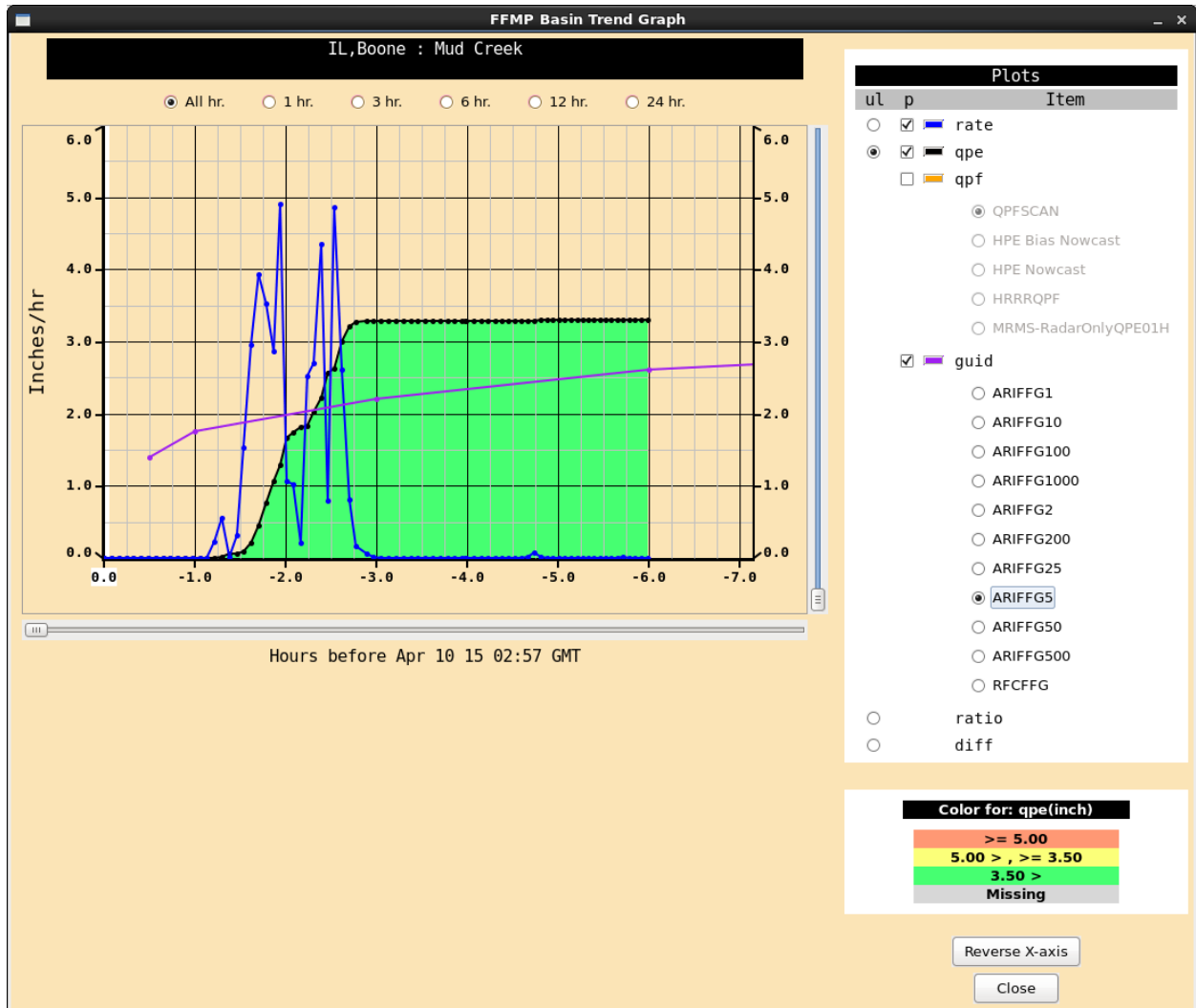


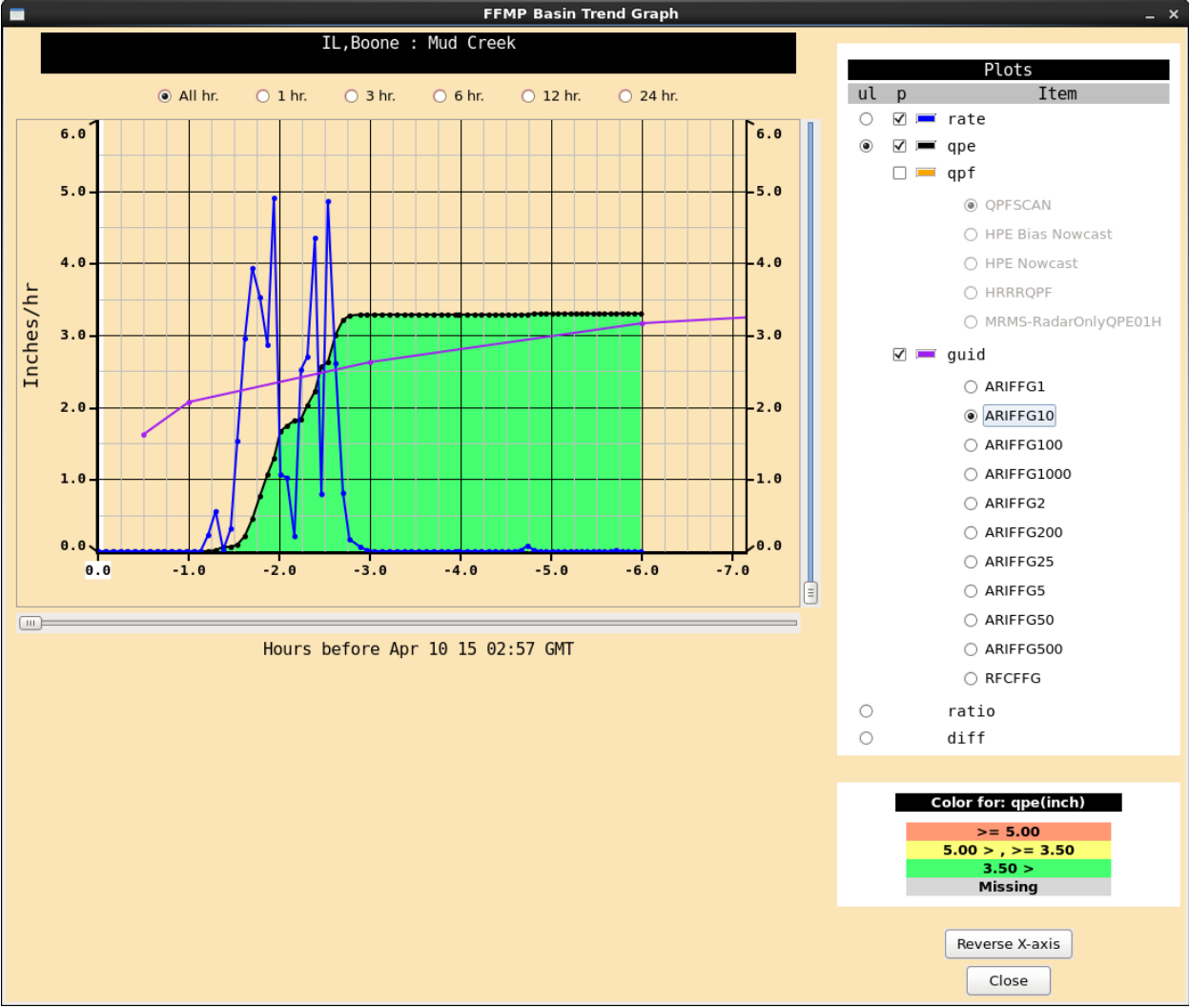
Cycle Through All ARI Values Quickly in Basin Trend

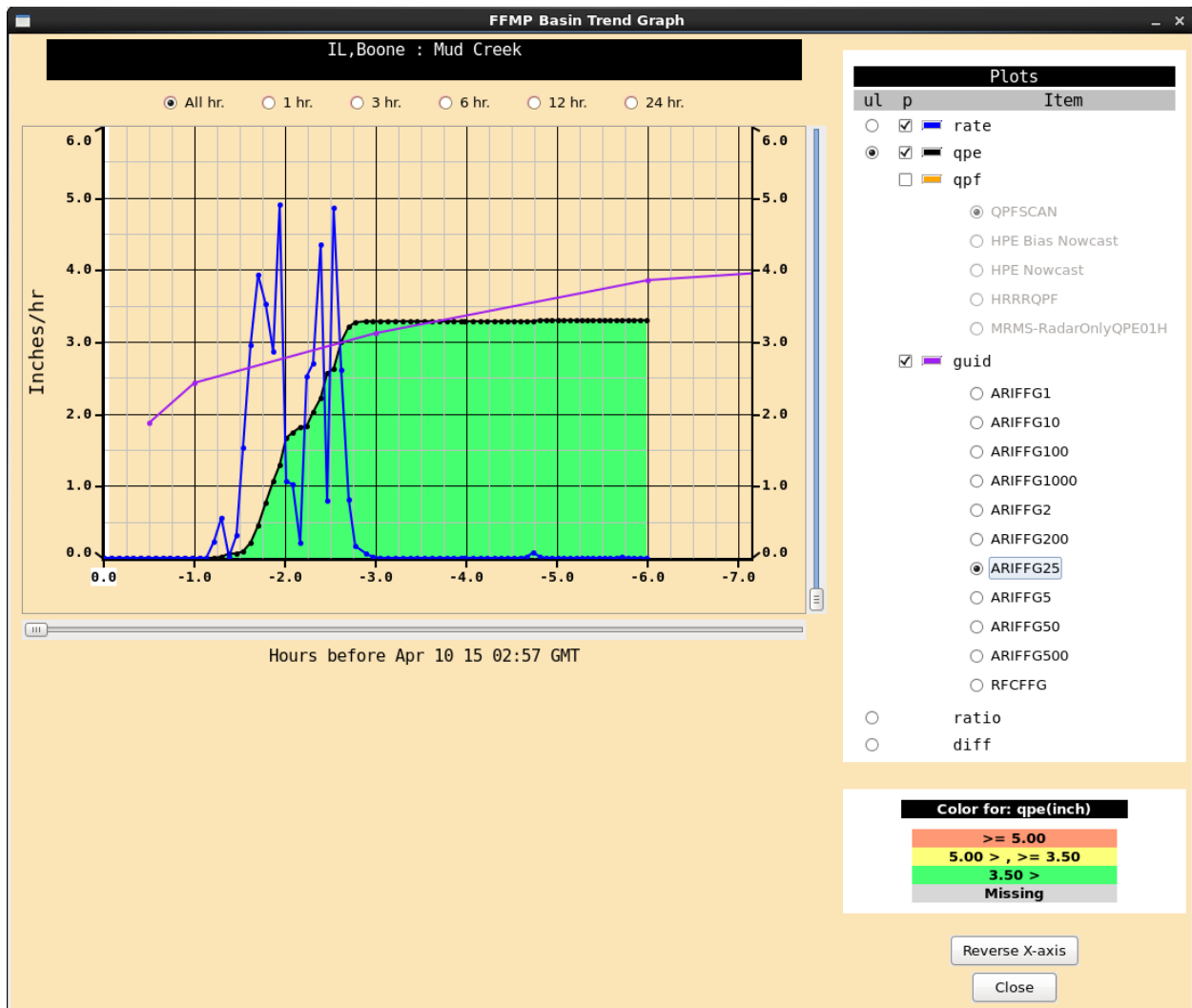
1. Select **ARIFFG2** to view the 2-year ARIs for all durations.



- Repeat the process for higher values **ARIFFG5**, **ARIFFG10**, **ARIFFG25**, etc. and note how the ARI thresholds increase (i.e. more rainfall is needed to exceed rarer ARIs). The maximum ARI for this basin is a 25-year ARI for a 3-hr duration.







3. This is a particularly efficient way to cycle through multiple ARIs and durations for a particular basin. You can also view ARI data for individual time plots using the buttons on the top of the basin trend graph (e.g. 1hr, 3hr, 6hr, etc.).