

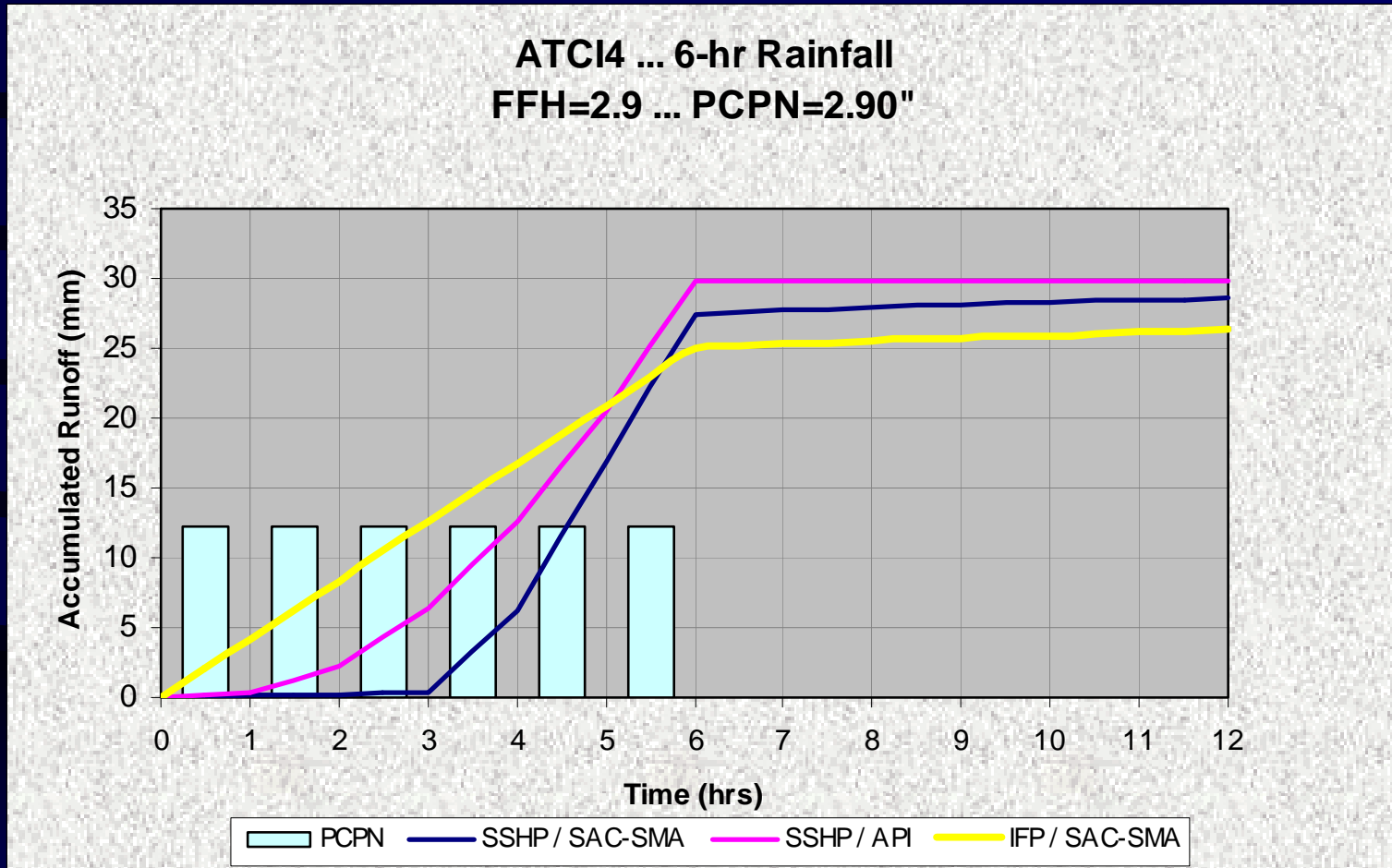
# Site-Specific Hydrologic Predictor (SSHP)

DOH/RDM Science Workshop  
June 7-11, 2004

# *AWIPS OB4 Version*

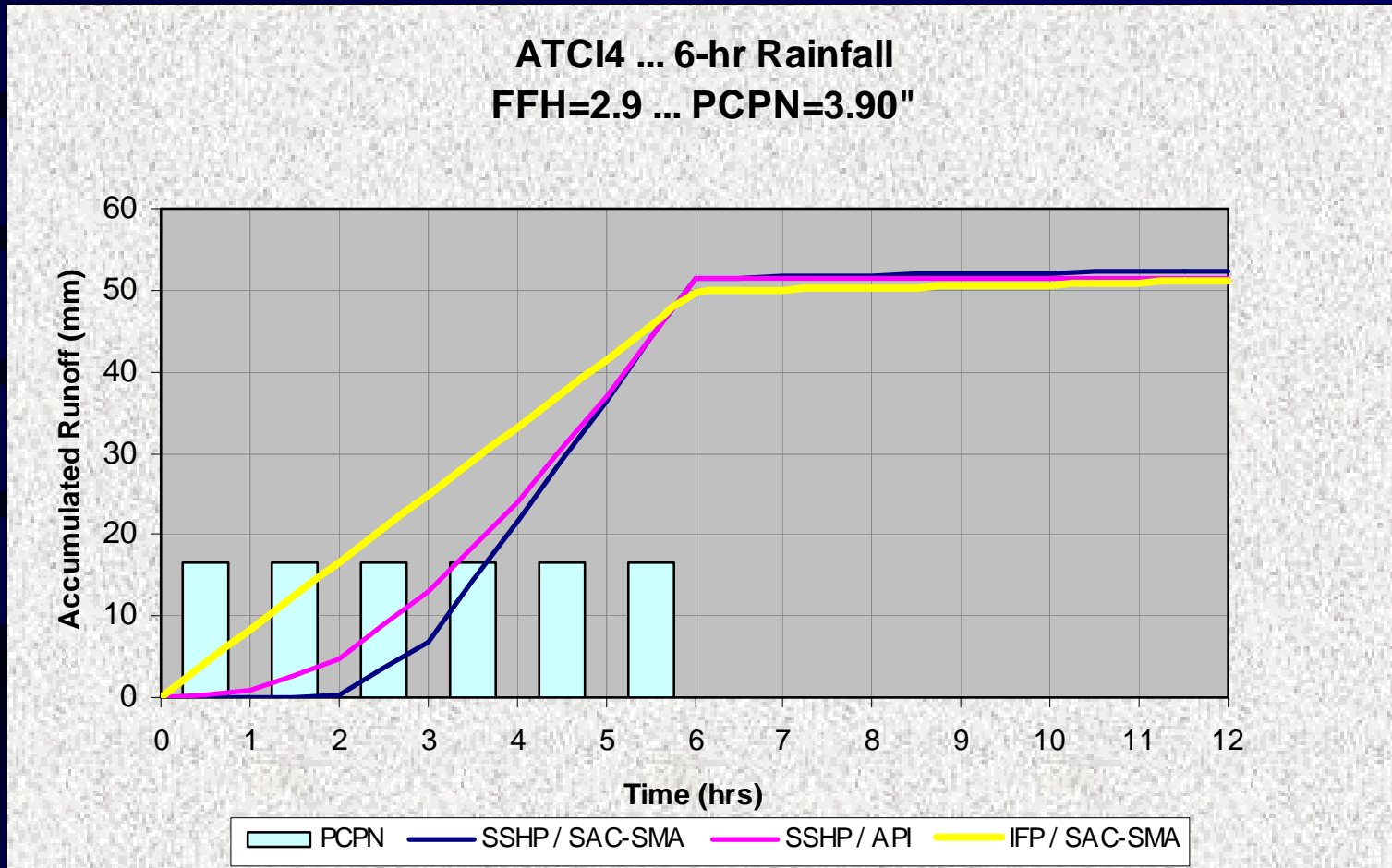
- Testing performed at MBRFC
  - Validation of API-MKC functionality
  - cursory comparisons of SAC-SMA vs API-MKC
  - Case studies
  - Feedback on interface design
- SSHP Control Window
- SSHP Analysis Window

# SAC-SMA vs API-MKC

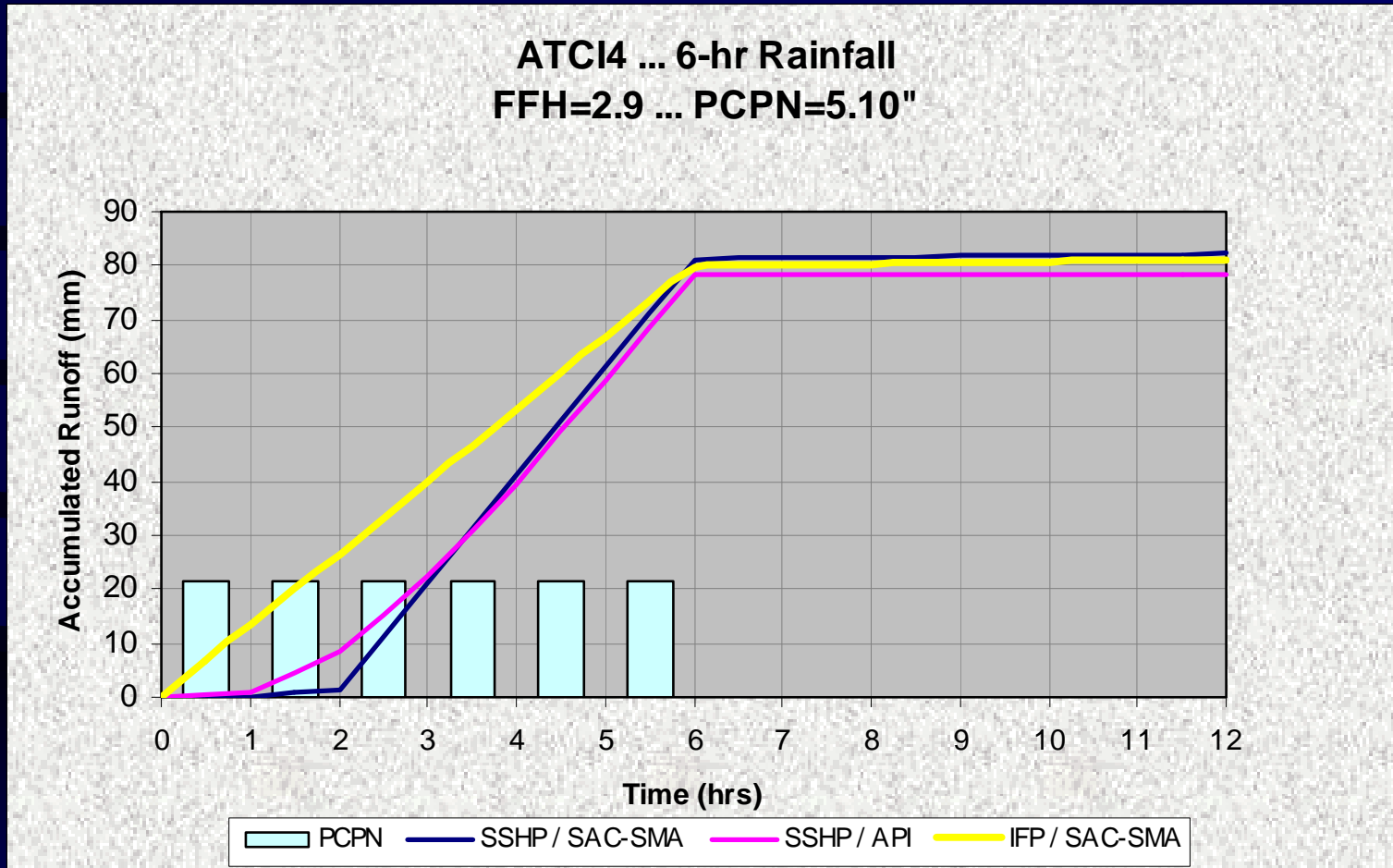


*UZTWM=60, LZTWM=120 | UZFW=20:0.30 | LZFS=40:0.03 | LZFP=60:0.001 | PERC=180:2.2*

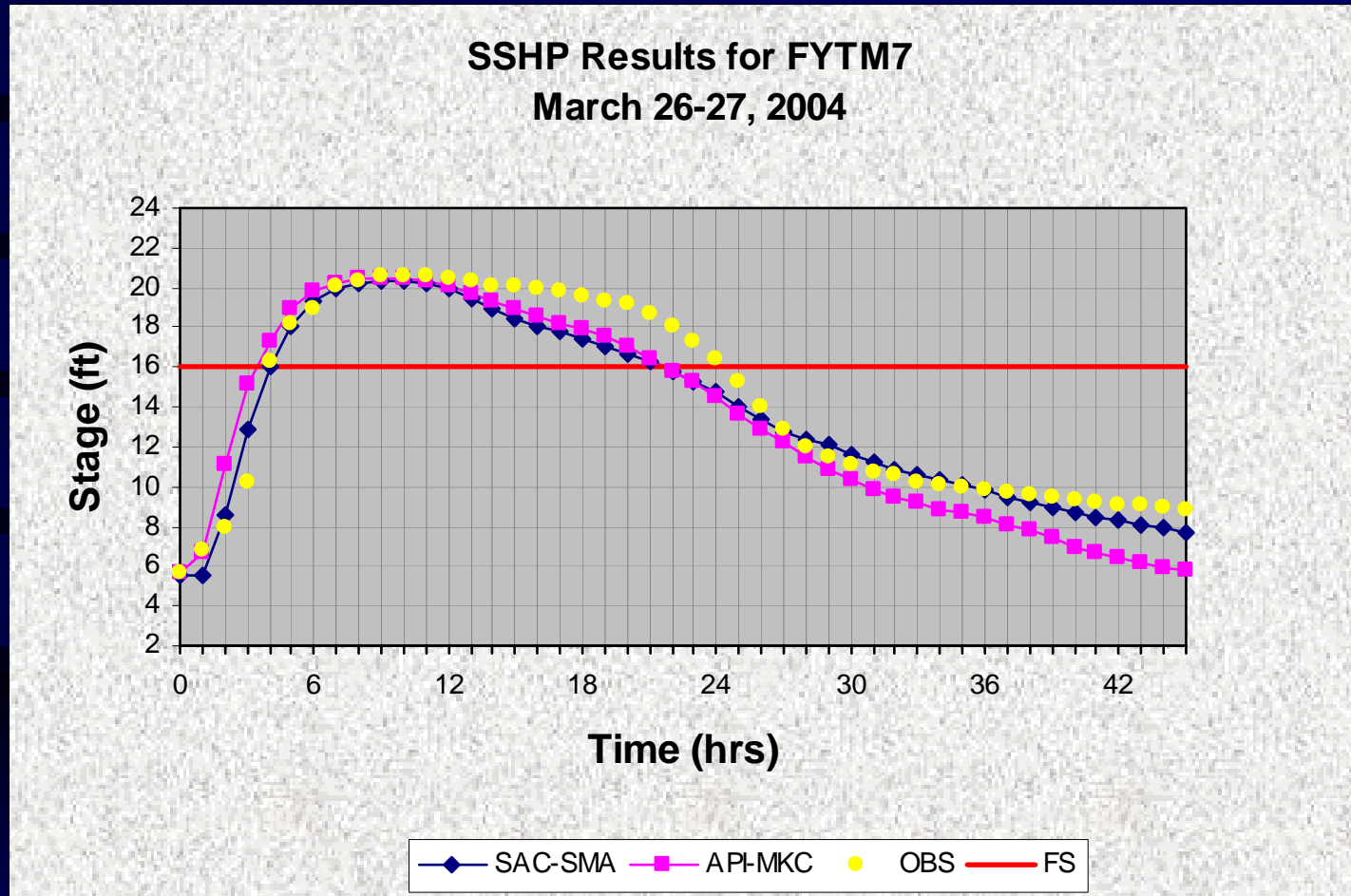
# SAC-SMA vs API-MKC



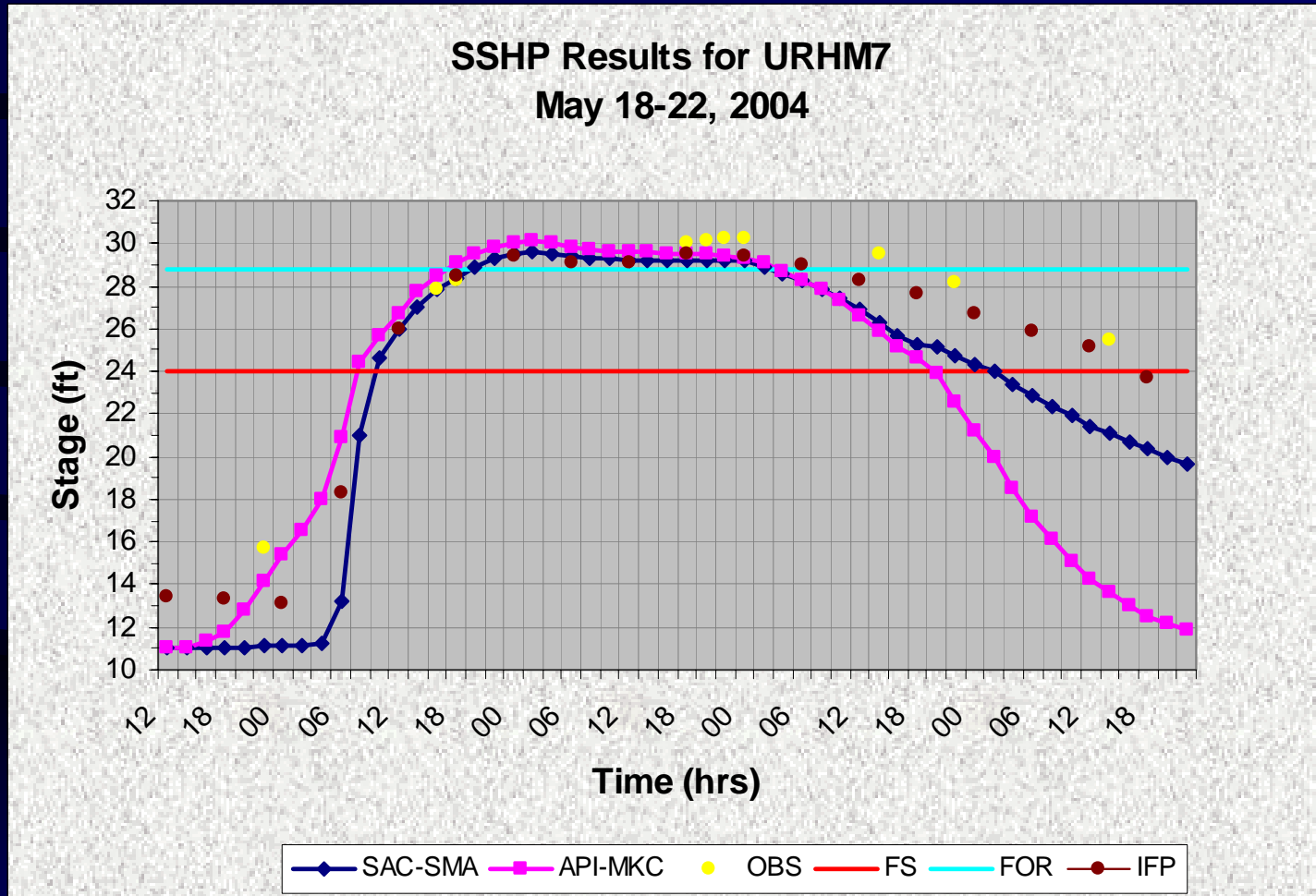
# SAC-SMA vs API-MKC



# Moniteau Creek nr Fayette, MO



# South Grand River nr Urich, MO



# Ideas for Possible Future Enhancements

- Improve MAP pre-processing times
- Handling of multiple MAP areas
- Viewing unit hydrograph, rating curve, etc.
- Model adjustments – categorical?
- Snow model
- Batch version which could be run from cron

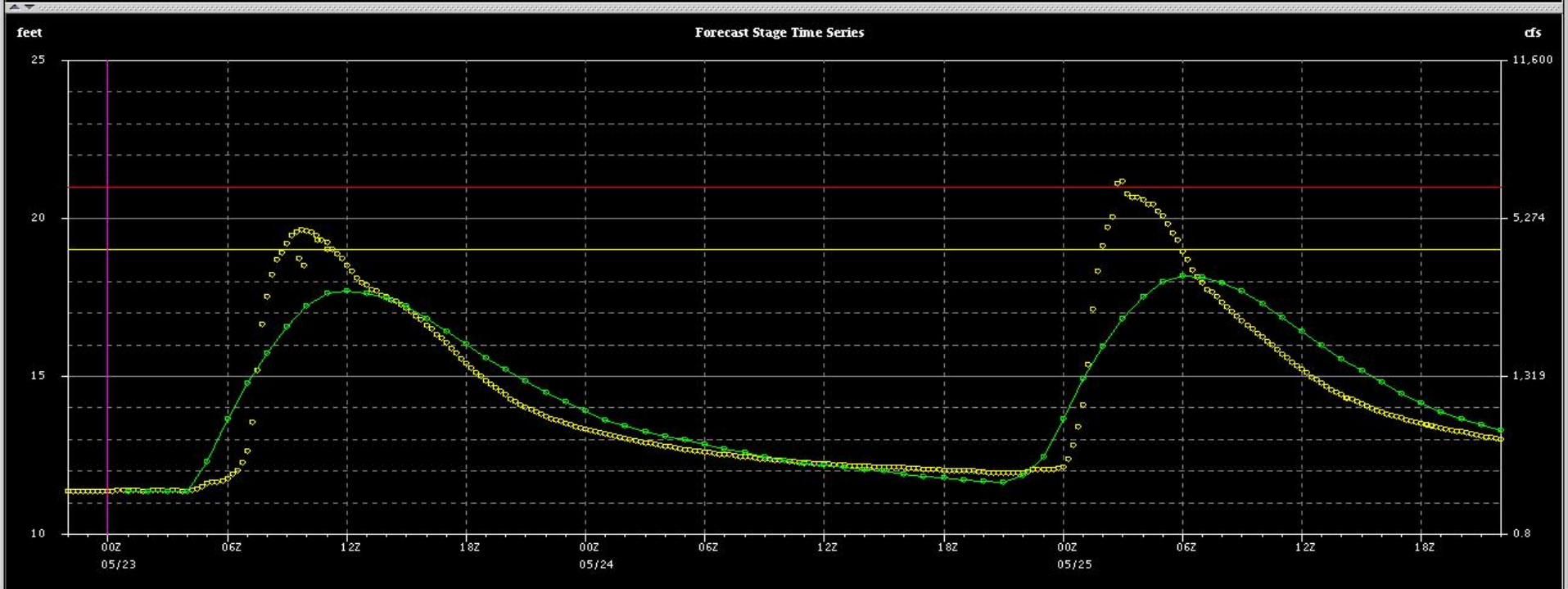
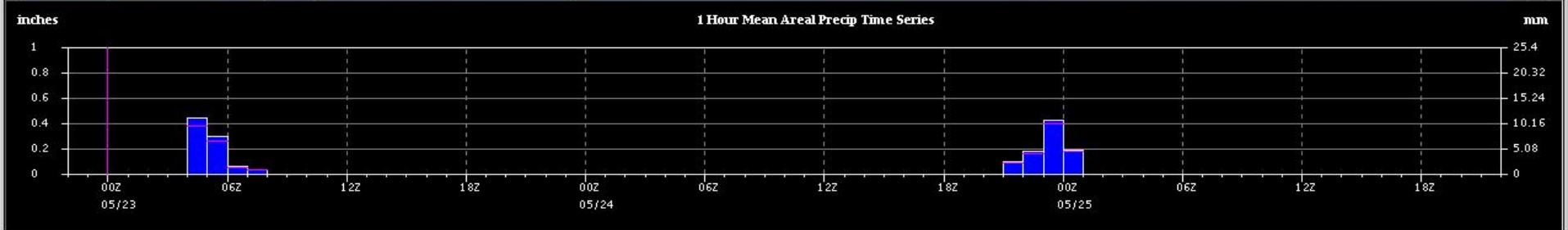


Thank you  
for your  
attention.



# SSHP Control Window





**Model Controls:**

Rainfall-Runoff Model: API-MKC

Model Run Start Time: 2004/05/23 00:00 Z

2004/05/23 00:00 Z Areal FFH = 2.50

Refresh State List

Reload Precip TS    Reload Obs Stage TS

**Graph Controls:**

Show Obs Stages     Force Show Flood Stage  
 Delay Rerun While Drawing  
 Show Minor Precip Lines     Show Minor Stage Lines

**API-MKC Settings:**

Use Custom Time    2004-05-26 16:00:00

Baseflow(cfs):     Reload Baseflow

FFH(inches):     Reload FFH

Threshold Runoff(inches):     Reload T. Runoff

Apply

Edit Precip...
Edit Fcst Height...
Save FcstHeight...
Save FcstDischarge...
Edit Evap...
Save Evap...
View Prior Runoff...
View Runoff...

Control Window...
Capture Screen
Close