CBRFC Operations Update Water Year 2019

CRFS March 28, 2019





CBRFC Operations Update

- Special Forecasts reminder
- CBRFC Model SWE plot review
- Peak Flow/Flood Potential updates
- Model calibration updates





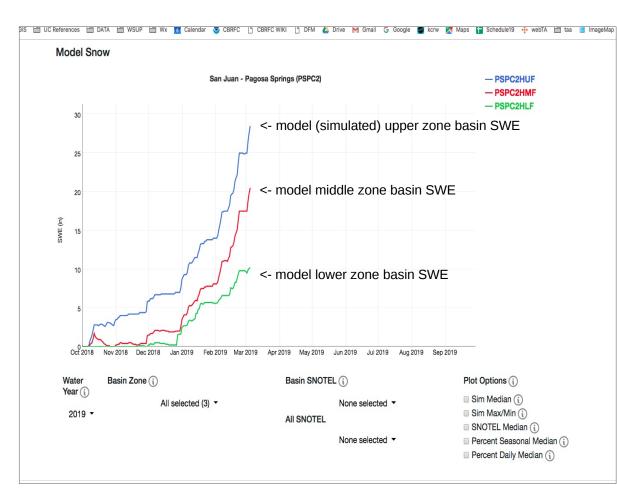
Special Forecasts

- 15 Day Extended Forecasts
- Peak Flow Forecasts
- Weekly Peak Flow Exceedance Plots

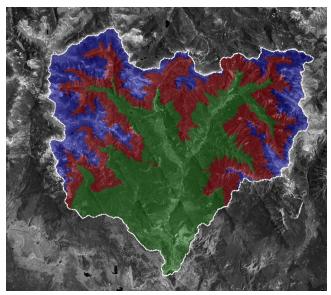




Primary Goal: supplement/add transparency to streamflow forecast products

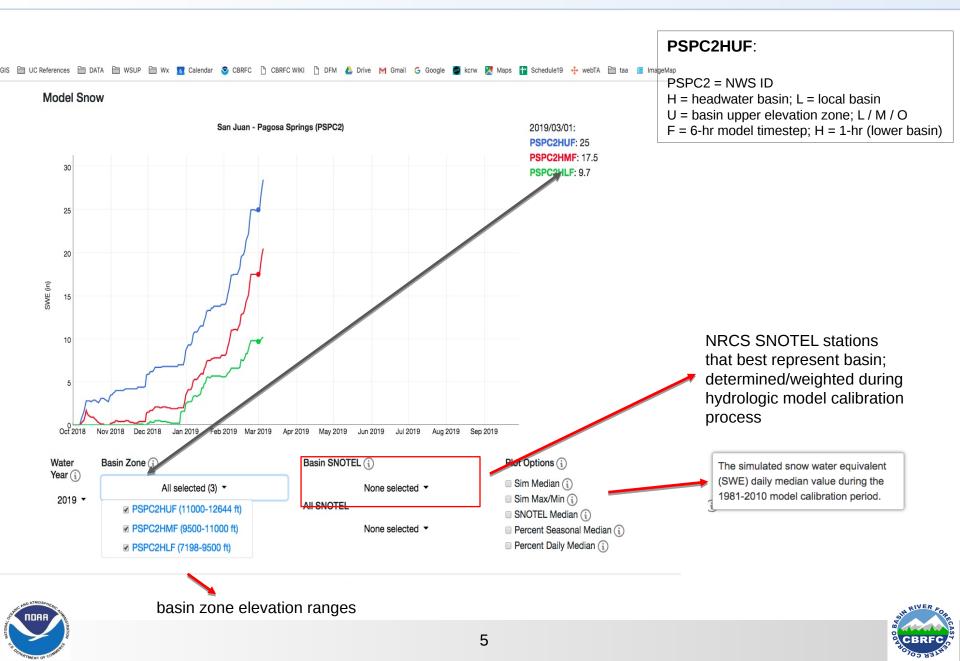


PSPC2 Basin Zone Map



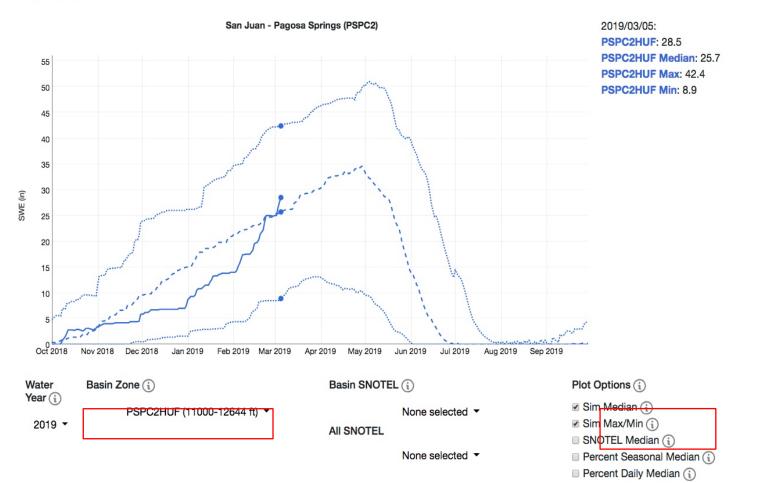
Basin Zone Elevation Ranges (ft) PSPC2HUF: 11,000 – 12,644 PSPC2HMF: 9,500 – 11,000 PSPC2HLF: 7,198 – 9,500





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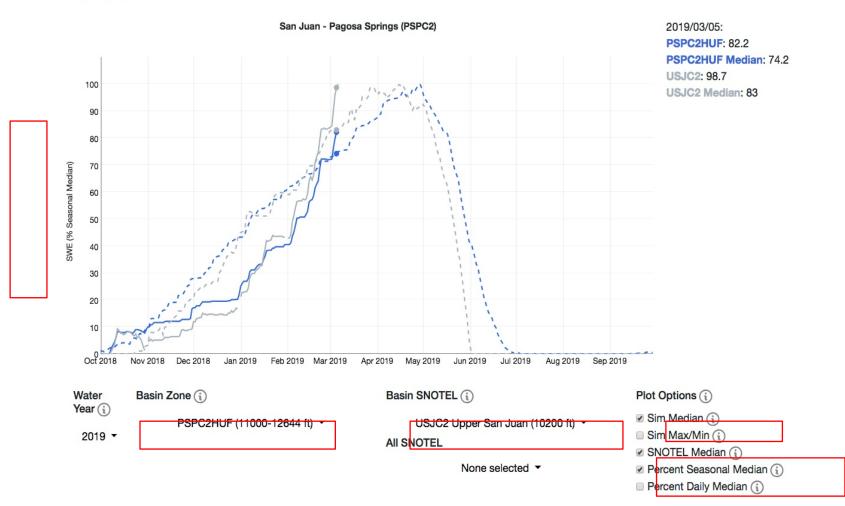




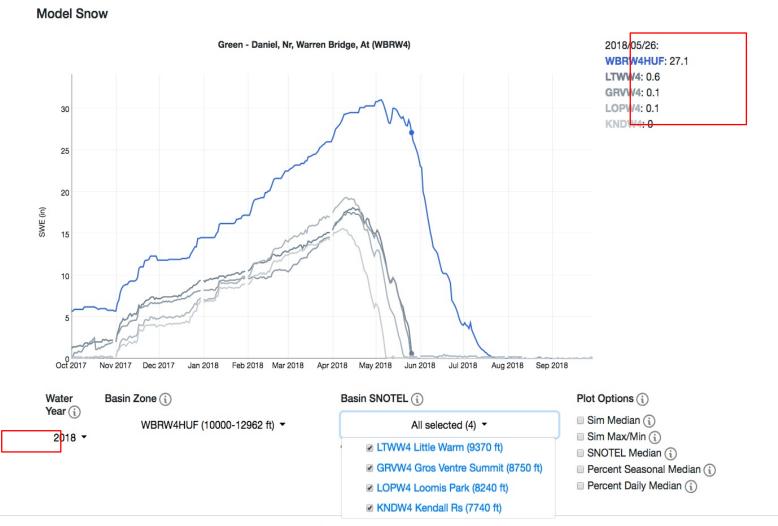
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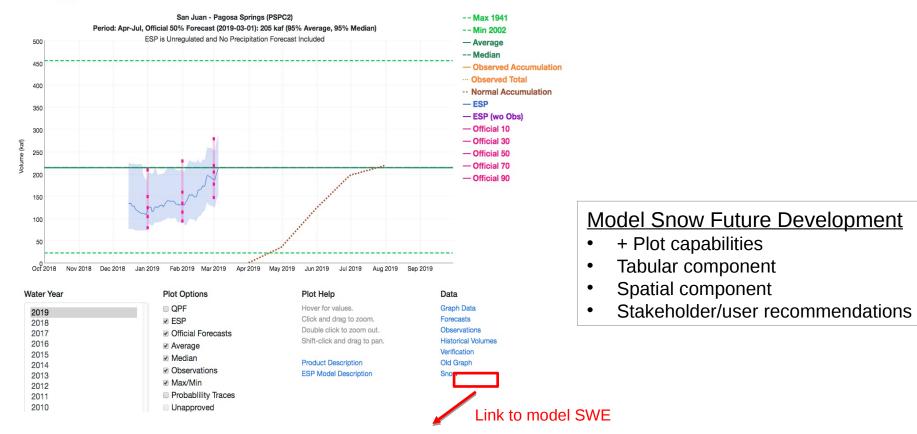
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https://www.cbrfc.noaa.gov/dbdata/station/snowmodel/snowmodel_dg.html?id=PSPC2

*Model SWE available for all CBRFC hydrologic model basins

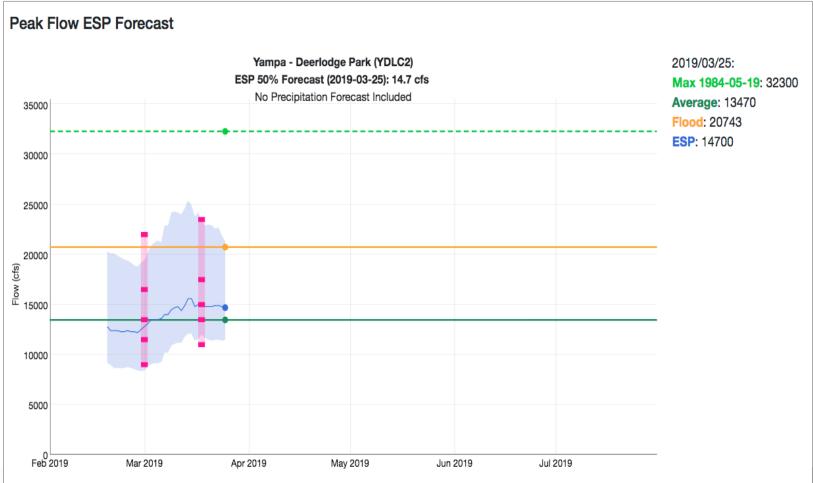




Peak Flow/Flood Potential Updates

New Peak Flow Evolution Plot

- Updated daily
- Work in progress
- Not available externally ... yet





Peak Flow/Flood Potential Updates

Percentile Ranking of Peak Flows

- Additional piece of information regarding flooding potential
- Not all locations have a defined flood stage
- Provides historical context
- Will eventually be available on the webpage

FORECAST PEAK RANKING INFO:								
EAST RIVER - ALMONT					ANIMAS RIVER - DURANGO			
3/26/2019	FLOW (CFS)	RANK/#YEARS	PERCENTILE		3/26/2019	FLOW (CFS)	RANK/#YEARS	PERCENTILE
ESP 90	1869	42/97	43		ESP 90	4159	48/109	44
ESP 75	2174	55/97	56		ESP 75	4742	66/109	60
ESP 50	2338	59/97	60		ESP 50	5447	77/109	70
ESP 25	2782	80/97	82		ESP 25	5974	84/109	77
ESP 10	3255	89/97	92		ESP 10	6489	88/109	81
BANKFULL	2446	65/97	67		BANKFULL	7554	101/109	93
FLOOD	3156	88/97	91		FLOOD	10406	108/109	99





Calibration

Completed

- Great Basin/Sevier River 5 year extension
- Lower basin recalibration mostly complete

<u>In Progress</u>

- Virgin River recalibration
- Uncompangre diversion data
 - Incorporated new diversion data below Ridgway Dam
 - Replaced calibrated irrigation losses with Colorado DWR gages
 - Return flow still unknown/calibrated





Staff and Basin Assignments

Ashley Nielson - Green River Basin and Lake Powell

Greg Smith - San Juan, Gunnison and Dolores

Cody Moser – Upper Colorado Mainstem

Zach Finch - Lower Colorado Basin

Tracy Cox - Lower Colorado Basin

Patrick Kormos - Bear and Weber

Brent Bernard - Six Creeks, Provo, Sevier

Brenda Alcorn – Support and Backup



