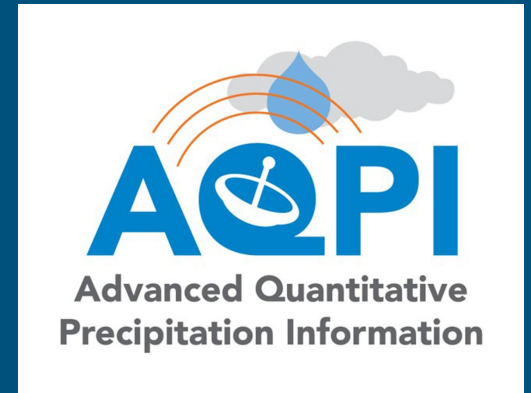# AQPI Data Implementation Working Group (DIWG)

Collaboration platform update - Slack Workspace "GSL-AQPI"; Example of Good Use - Hilary

System Progress Update & Next Steps - Michael Leon

National Water Model Development/Improvement - Rob Cifelli, Dave Gochis

Monthly meeting - Aug 19, 2020

GSL-AQPI Slack Workspace

Why did we add another *thing?*

I heard from you all - at least from a few - that there is a desire for a collaboration space, for agency to agency to talk. Here are the ways I see each 'platform' working:

Google Drive: Formal communication for 1-1 (NOAA-agency) meetings, agency specific files, NOAA internal preparation for User Group Meetings, requirements

AQPI website: Formal recordings of meetings, agendas including presentation pdfs, formal pdf resources

Slack: Informal communications, troubleshooting, agency-to-agency problem solving, discussions of how to use AQPI data, suggestions for improvements, file sharing, code sharing

Slack Bennies

Channel (or group) chat - currently only Data Implementation Working Group members are invited, all users will eventually be invited

Direct chat - everyone who signs up will be available for a direct chat, if Devon wants to ask Jack a quick question about HEC models, for example, give it a shot!

You can either download the **app** to your computer OR use it in the **browser**

You can **filter** what you get **notifications** about - for example you could filter to get notifications about direct messages only or a phrase like: National Water Model or NWM or HEC.

You can add apps like **GitHUB** to be able to share code.

You can have quick video calls with folks

You have your own direct channel which means you can keep your thoughts and notes there

AQPI System Status - Michael Leon

System team is spread thin currently, focus has been on components: National Water Model, CoSMoS, radar processing and Nowcast needs

We've brought on a new engineer and made some progress on adding agency data for 5 counties

We're focused on getting all the proper pieces working through the system

    Web presence updates

    End to end changes to simplify data processing

A lot is happening under the hood. Once that's ready, we plan to engage with each agency

AQPI Next Steps

We will start working with the agencies, iterating with the data available as to formats and content; confirm gauge data is in the system

We're changing the usernames for the web and ftp access - to standardize from creation to delivery within the AQPI system

as we start working with you we will communicate username status, etc

NWM - plan to work with NWS to subset this data and make streamflow data available to agencies at 1km resolution for each channel.

National Water Model Development/Improvement
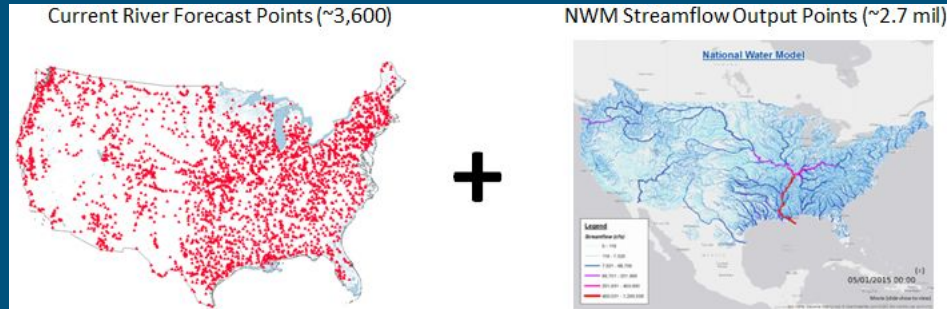
Who is NOAA OWP? What's their role?

How does NCAR fit into the NWM?

What can be done to improve the NWM as part of ongoing development? What about error corrections that can be easily incorporated?

What can be done beyond the current operational process?

Guest speaker - Dave Gochis, NCAR

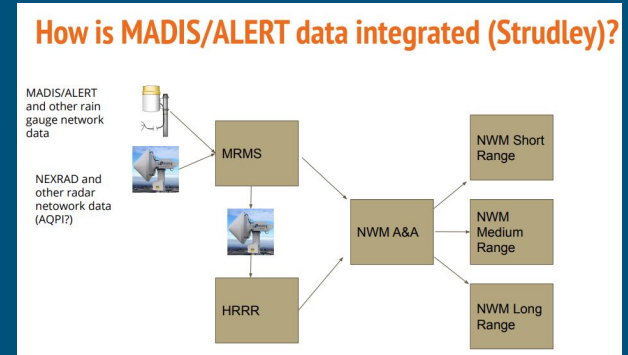# NWM Dev - Who is NOAA OWP? What's their role in NWM? What is NCAR's?

NWM Dev - What can be done to improve the NWM as part of ongoing development?

Organizational -

- **Give the NWM better precipitation inputs**
  - We are aiming to have the X-Bands incorporated into MRMS by Spring 2021!)
  - Improving HRRR through radar inputs and other model advancements
  - Add gauges into MADIS (*150 added recently!)
- **Add Water Management Information**
  - reservoir flow releases through CDEC and CNRFC (**CNRFC participates AQPI Users Group)
- **Calibrate the NWM in more Bay Area watersheds**
- **Establish formal process with NOAA's Office of Water Prediction to "fix" the NWM**
  - Identify errors in gauge locations and stream reaches
  - Add additional gauges into the workflow

User -

- Identify unregulated basins with 10+ yr gauge records
- Feedback on errors - gauge in wrong place, stream reaches not correct, simulated streamflow really bad

How is MADIS/ALERT data integrated (Strudley)?

MADIS/ALERT and other rain gauge network data

NEXRAD and other radar network data (AQPI?)

MRMS

HRRR

NWM A&A

NWM Short Range

NWM Medium Range

NWM Long Range

Being done as part of this grant

NWM Dev - What can be done beyond the current operational process?

Post processing focused on AQPI region