

CoP Small Work Group:

Air Quality, Wildfires, Respiratory Health

- Eric Klos & Pawan Gupta, Co-Chairs

Purpose

- *To collectively advance the science of modeling satellite and sensor measurement data for monitoring, forecasting, and assessment of air quality, wildfire-related pollutants, and aeroallergens to quantify the levels of exposure associated with health risk for various population groups and the public at large.*

Past Activities

- Coalesced around a Community Feasibility Study
 - Wildfires affects communities (health services, schools, community centers, event organizers, and individuals) in many ways
 - Satellite and surface data models can help provide useful information for informed decision making at many levels
 - Often datasets and tools are designed using top-down approach (i.e. someone has idea, data and execution power)
 - During a wildfire – what actual useful information does a particular health service, community, or patient population need and how NASA can help provide that?
 - As a group, we can do a needs assessment exercise and propose a solution to NASA applied science program

Future Plans

- Last Meeting in Spring 2022
- Seeking New Co-Chairs for 2023
- Gather Volunteers for Community Feasibility Study
 - Identify region/county which frequently is affected by Wildfires
 - Assess existing resources and how are they being used
 - Reach out to potential local collaborators (AQ agencies, schools, community groups, citizen scientists, emergency services, health providers, etc.)
 - Organize listening session – online
 - Develop surveys to formally collect information
 - Perform need assessments
 - Identify NASA datasets, tools and develop a prototype study