Development of a system for the integrated management of water resources and disasters in poorly gauged basins

Near-real-time rainfall data with adequate resolutions are a prerequisite for effective water resource and disaster management. However, in many river basins in the world, near-real-time rainfall data are rarely available due to insufficient ground observation networks.

ICHARM continuously collaborates with JAXA to maximize near-real-time freely-available global satellite precipitation products (SPPs) for effective water resources and disaster management in poorly gauged basins (Figure 1). We are also studying methods for efficiently bias-correcting SPPs by incorporating ground observation data and methods for designing optimal ground observation networks.

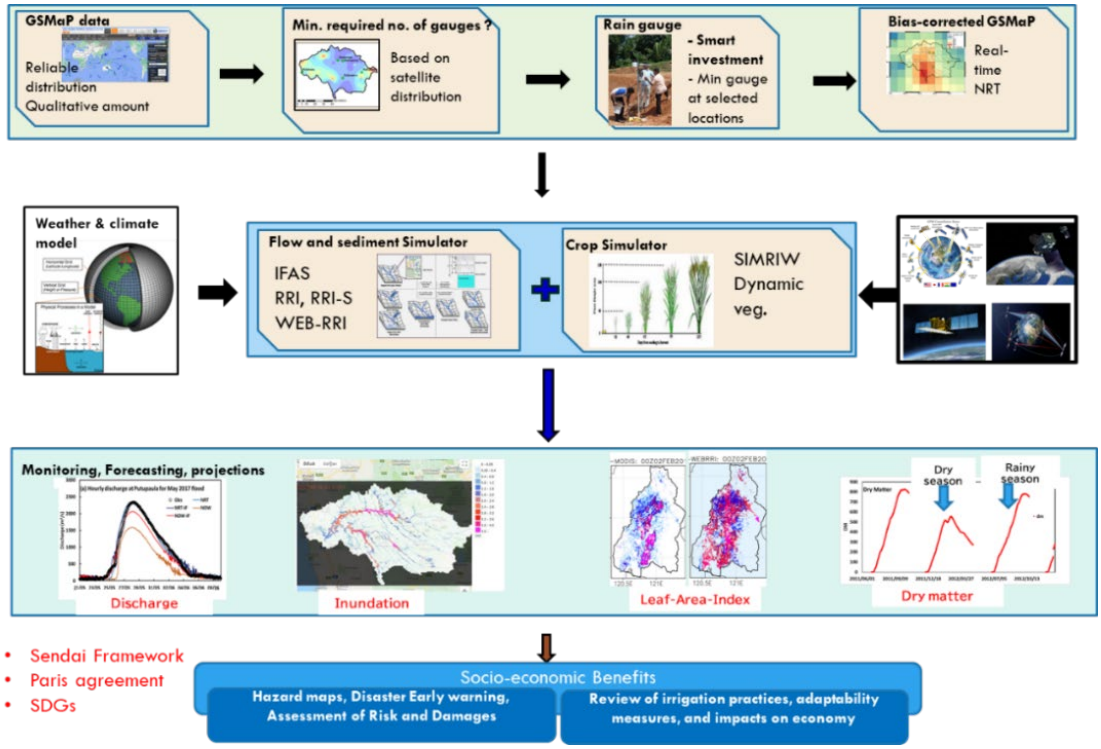


Figure 1 A conceptual image of a system for the integrated management of water resources and disasters in poorly gauged basins