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Ching-Yuang Huang is a Chair Professor at the Department of Atmospheric Sciences, National Central University in Taiwan, and the Director of GPS Scientific Application Research Center in Taiwan. He held a B.S. and a M.A. in Meteorology from the Department of Atmospheric Sciences, National Taiwan University in Taiwan, and a Ph.D. at the Department of Marine, Earth and Atmospheric Sciences, North Carolina State University in U.S.A. in 1990. He received "the Outstanding Research Award in Meteorology" in 1997 from the National Science Council of Taiwan. His major interests focus on typhoon dynamics and numerical weather prediction with advanced data assimilation of a variety of measurements, in particular, the FORMOSAT-3/COSMIC GPS radio occultation (RO) observations. He has published many SCI journal papers mostly regarding mesoscale and typhoon dynamics and modeling and latest the impacts of GPS RO data on numerical predictions of regional weathers including typhoons impinging Taiwan.

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Missions and Status of Taiwan Typhoon and Flood Research Institute

The Taiwan Typhoon and Flood Research Institute (TTFRI) was first founded as a Preparatory Office under the National Applied Research Laboratories (NARL) in January, 2007. Its missions include identifying the requirements and gaps for disaster relief and mitigation agencies, integrating domestic meteorological and hydrological science research and thus developing the core technologies for an integrated platform.

In order to achieve these goals towards synergy, TTFRI endeavors in building a comprehensive research archive by integrating existing databases and provide easy access for basic research. We also work closely with universities in initiating interdisciplinary laboratories and collaborative projects, assisting these multidisciplinary teams in typhoon and flood observation fieldwork, data collection and analyses.

TTFRI has had a vision for synergy since the beginning as a Preparatory Office, and is keen on moving towards to realizing its missions while preparing for its official launch in the near future, that is to develop core technologies in numerical weather modeling, quantitative precipitation estimate/forecast (QPE/QPF) tecniques, hydrology modeling and observation capability. We also aim to foster the manpower for advanced typhoon and flood research in Taiwan, boosting the quality and quantity of our research development and accentuating Taiwan's regional R&D capacity for a world-class typhoon and flood research institute.