

**SUBJECTS INCLUDED IN THE
INTERNATIONAL HYDROMETEOROLOGY ANALYSIS AND FORECASTING COURSE**

Boulder, Colorado, USA

(9–27 June 2008)

1. Designing a real-time hydrometeorological network
 2. Meteorological primer on Quantitative Precipitation Forecasts (QPF), moisture, intense precipitation
 3. GIS data and application in hydrology
 4. Real-time hydrological forecast systems
 5. Hydrologic and hydraulic models
 6. Radar and rain-gauge Quantitative Precipitation Estimation (QPE)
 7. Satellite QPE: Hydro-Nowcaster and Hydro-Estimator
 8. Desktop workstation weather-forecast system, WRF, and coupled land-surface and river-routing models
 9. Flash-flood monitoring and prediction and flash-flood guidance
 10. Special topics in flash flooding: urbanization, fire, landslides, and debris flow
 11. Ensemble streamflow prediction (ESP)
 12. Drought
 13. Dam failure
 14. Flood mapping
 15. Disseminating products and decision support systems
 16. Societal impacts
 17. Outreach (emergency managers, schools, media)
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