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**Satellite-derived Flood Product Analysis to support Impact-based
Forecast (IBF) and Warning Services**

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Natural hazards, such as floods and landslides are increasing in number all over the world, especially in Indonesia. It means, many people are impacted that cause economy lost and death. Although, meteorologist and scientist provide useful product including Numerical Weather Prediction (NWP) and nowcasting product from weather radar and weather satellite, however it is not enough to prevent society from disaster because the product just indicate the date time and where it will happen. As a result, people confuse doing early action when they get early warning. A viable solution is using Satellite-derived Flood Product to support Impact-based Forecast (IBF) and warning services product. Flood products have many options to provide reliable flood condition based on spatial and temporal analysis. In addition, the output of flood product in GIS format, it means, a weather forecast can overlay the product with disaster and NWP to produce impact and response in IBF product. Another important point is that, by utilizing flood product maps, one can create a global or regional assessment of the number of days a given area is flooded for a given year (or longer period). Therefore, IBF product will provide advantage for people to prevent themselves from flooding.

In conclusion, Satellite-derived Flood Product can give many advantages especially to support IBF in each region.

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