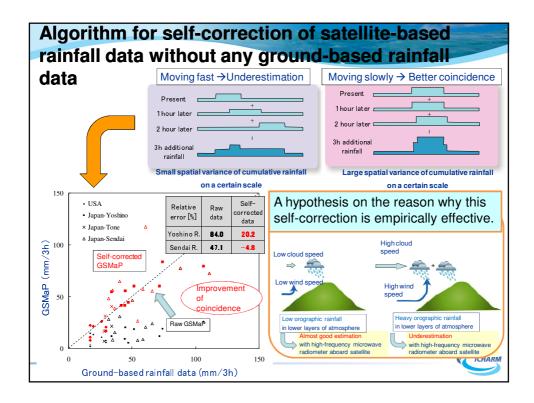
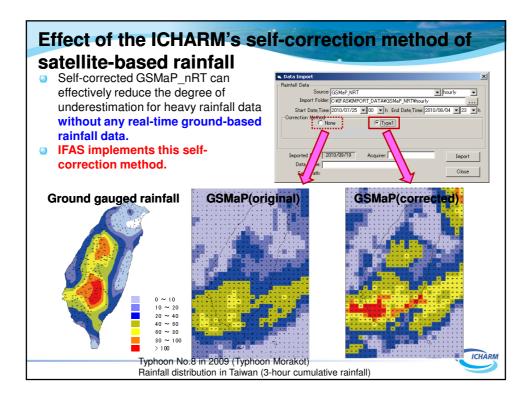
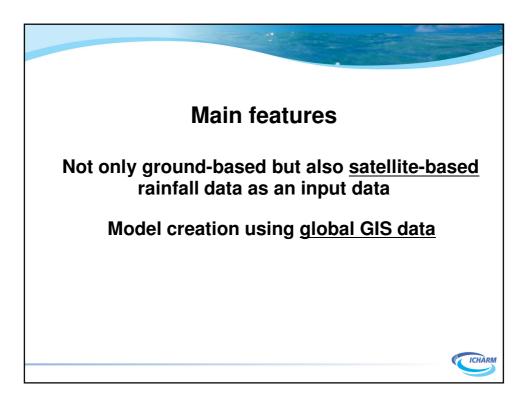


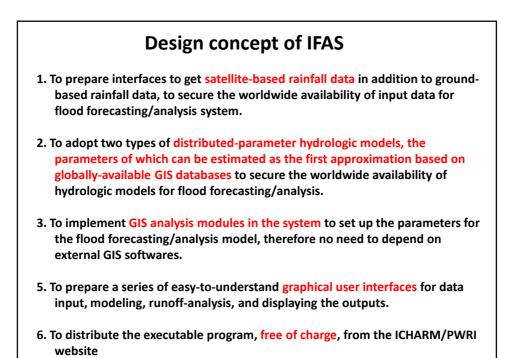
 Satellite-based rainfall data There is no necessity for installation and maintenance of a rain gauge or transmission equipment . Ground-based rainfall data are indispensable to get highly-accurate flood runoff analysis and forecast. Almost the worldwide coverage and a consistent accuracy are obtained. 					
 Resolution (time and space) and observation accuracy are low compared with properly-distributed ground-based rainfall data. 					
	Product name	3B42RT	CMORPH	GSMaP_NRT	Global Rainfall Map
	Developer and provider	NASA/GSFC	NOAA/CPC	JAXA/EORC	Date: Date: <th< td=""></th<>
	Coverage	Coverage N60° - S60°			- Constant of the second
	Resolution	0.25°	0.25°	0.1°	
	Resolution time	3 hours	3 hours	1 hour	Name 01 05 13 28 20 50 500 150 200 259 200 Here/or We offer hoursy global neinfall maps in near real time (about four hours after observation) using the contained MM-R department with THOME (Sour Address, CMSP 130M, and GEO PE data.
	Time lag	10 hours	15 hours	4 hours	This system was developed leaved on authorities of the JET-CHRET (COMMA Totality Massing of Precisitation) project. Description Variable : Reinful rate (www.hr)
	Coordinate system WGS				Oranain : Global (60N - 600) Grid maskulan i 0.3 degres lar/hm Temporal maskulan : I hour
	Historical data	Dec 1997-	Dec 2002-	Dec. 2007~	GSMaP_nRT
	Sensors	TRMM/TMI Aqua/AMSR-E AMSU-B DMSP/SSM/I IR	Aqua/AMSR-E AMSU-B DMSP/SSM/I TRMM/TMI IR	TRMM/TMI Aqua/AMSR-E ADEOS- II / AMSR SSM/I IR AMSU-B	http://sharaku.eorc .jaxa.jp/GSMaP/in dex.htm

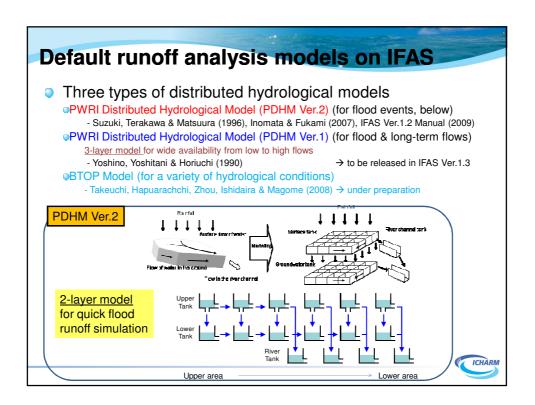


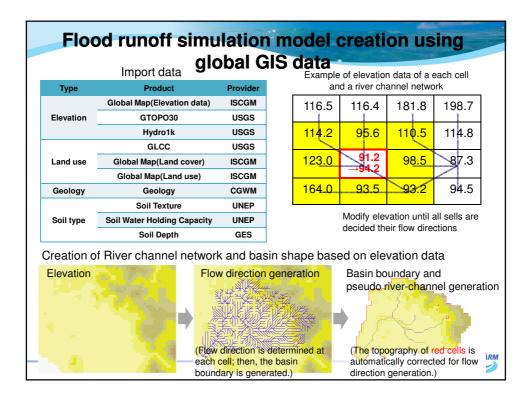


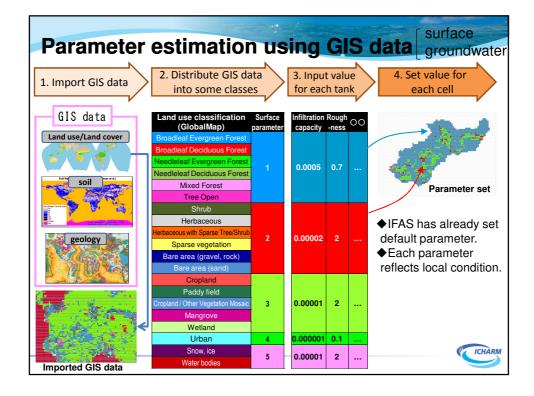


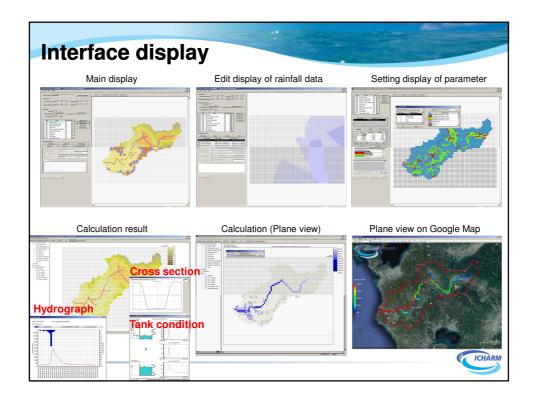


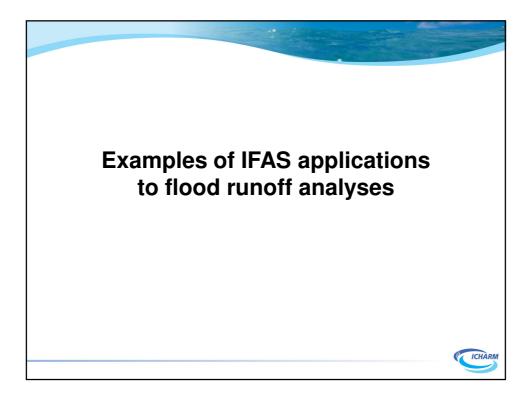


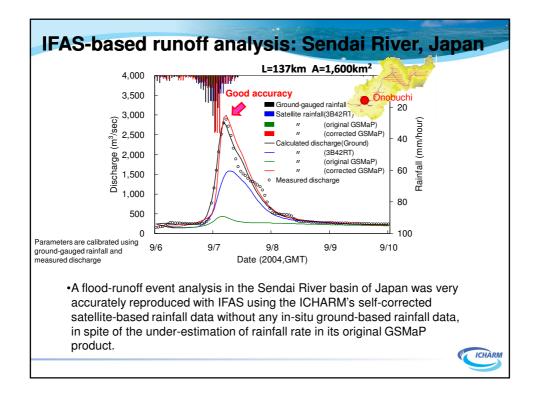


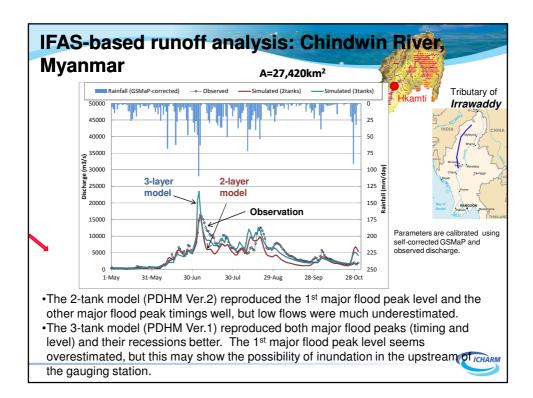


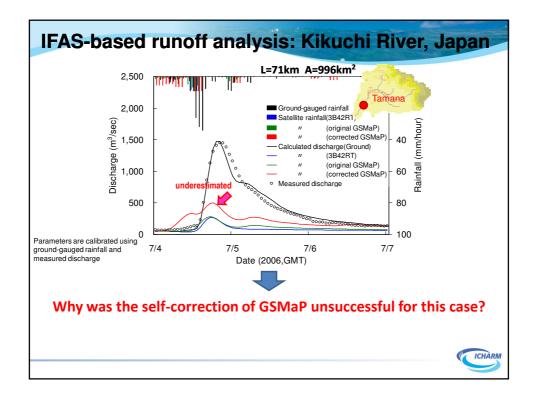


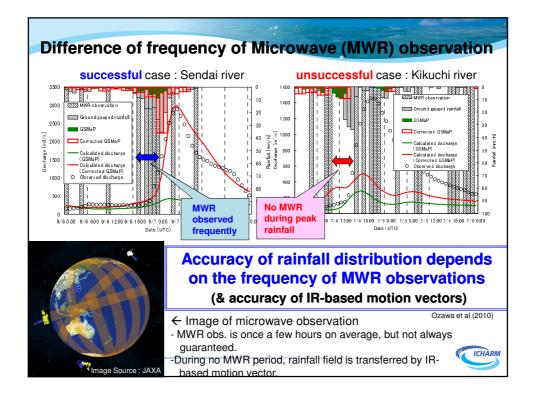


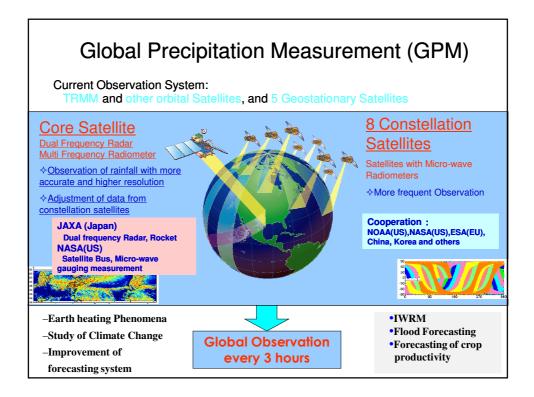


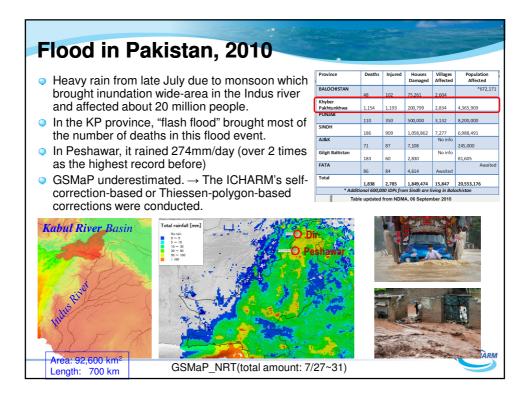


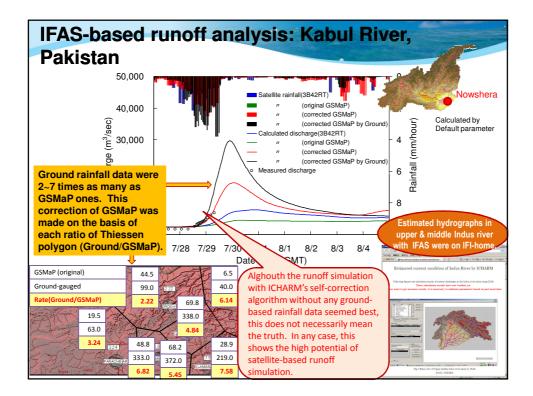


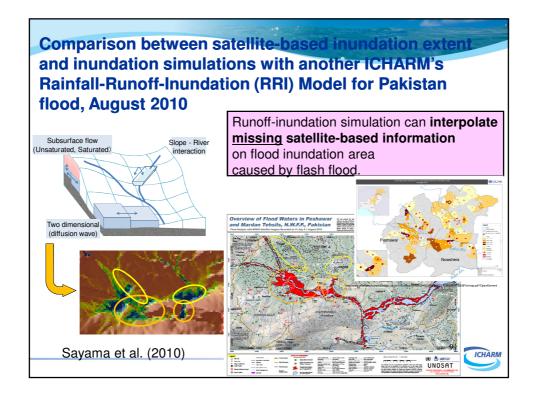




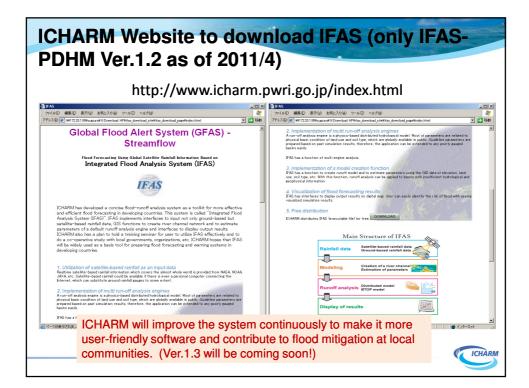




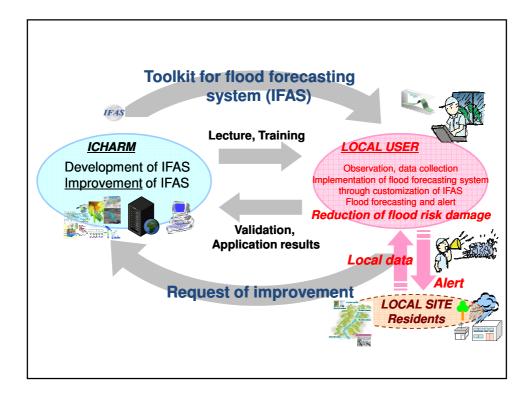


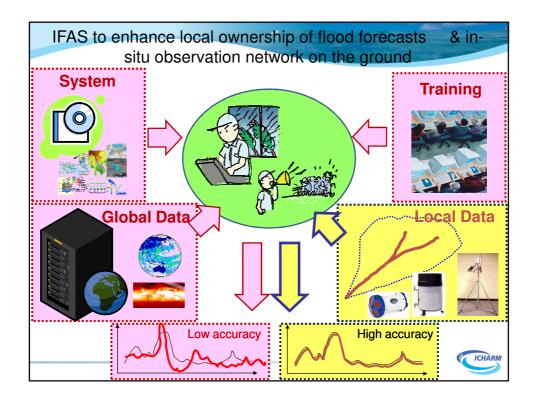












Conclusion • The combination of satellite-based rainfall information, global GIS data and IFAS (Integrated Flood Analysis System), as a practical toolkit for local users, especially in poorly-gauged river basins to integrate all those global information, has very high potential to promptly & efficiently implement flood analysis & forecasting system, in consideration with further step-by-step improvements in the future. • Key valuable information can be acquired through satellite-based and global-GIS-based IFAS simulations even if the accuracy is not enough from the perspective of the coincidence of hydrograph. On the other hand, it should be also noted that, without any in-situ (ground-truth) data, such integrated information & analysis cannot be assured, verified nor improved. • It is, therefore, indispensable to couple satellite & global GIS data with in-situ (geographical, geophysical and hydrologic) data in order to improve the quality (accuracy) of the integrated information & analysis and to upgrade the range & depth of application, which will lead to the establishment of local ownership of flood forecasting and warning.