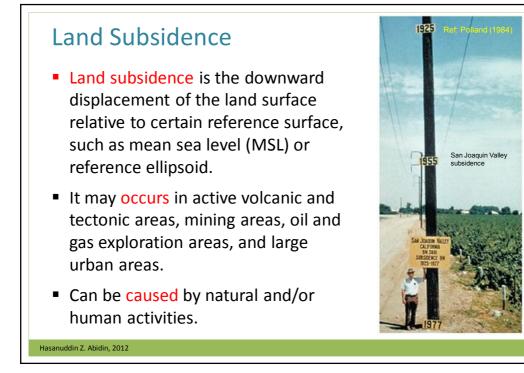
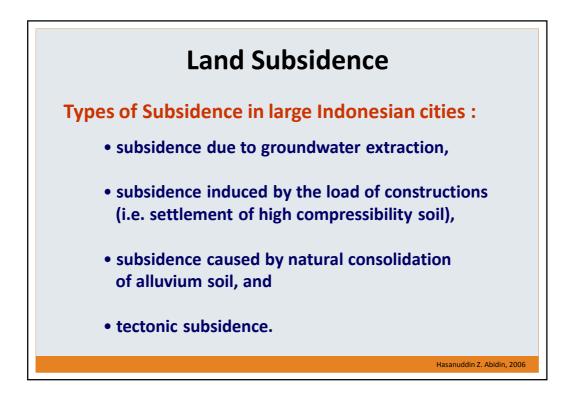
Spatial Correlation between Land Subsidence and Flooding in Urban Areas of Indonesia

H.Z. At	pidin , H. Andreas, I. Gumilar,	JJ Brinkman	
FACULT INSTITU JL. GAN	GY RESEARCH GROUP Y OF EARTH SCIENCE AND TECHNOLOGY TE OF TECHNOLOGY BANDUNG (ITB) ESHA 10, BANDUNG, INDONESIA 1zabidin@gd.itb.ac.id	DELTARES DELFT NETHERLANDS	
6	European Geosciences Union General Assembly 2013 Vienna Austria 07 - 12 April 2013 EGU.eu	the state	



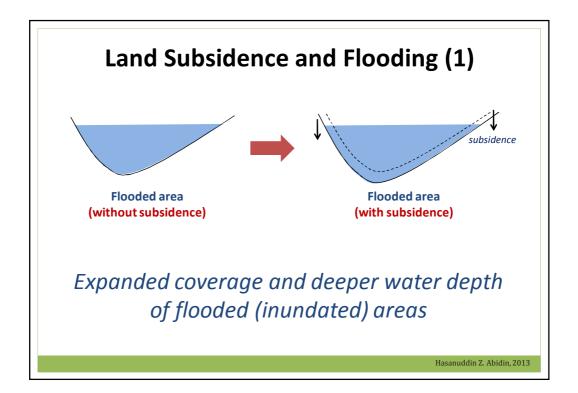


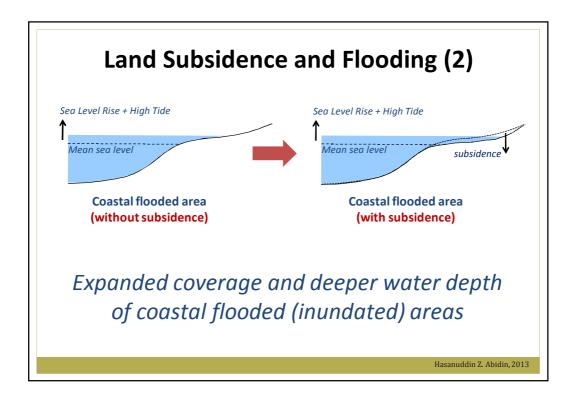


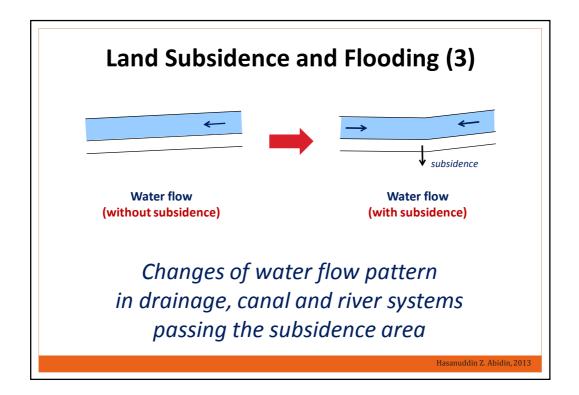
Geodetic Methods for Land Subsidence Monitoring in Urban Areas of Indonesia						
City	Leveling	GPS	InSAR	Gravity		
JAKARTA	Since 1982	Since 1997	Since 2005	Since 2008		
BANDUNG	Limited	Since 2000	Since 2007	Since 2008		
SEMARANG	Since 1999	Since 2008	Since 2007	Since 2002		
GRD of ITB mainly involved with GPS Surveys and InSAR.						

Malfunction of drainage system
Changes in river canal and drain flow systems
onment and life the affected areas

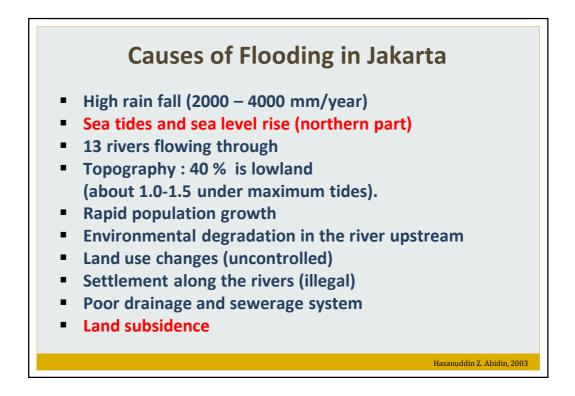


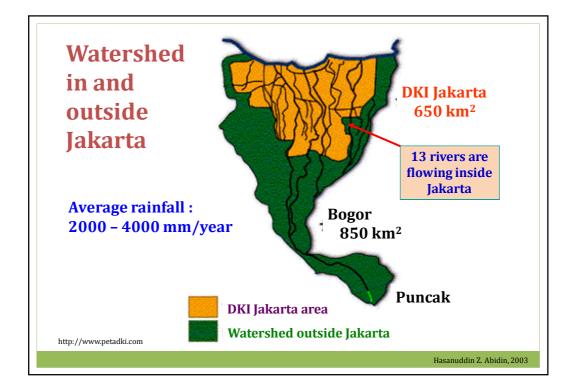


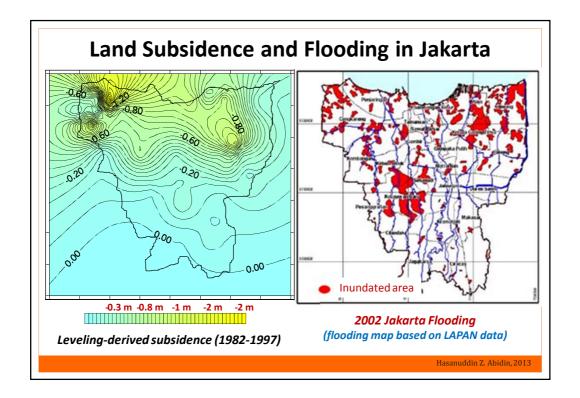


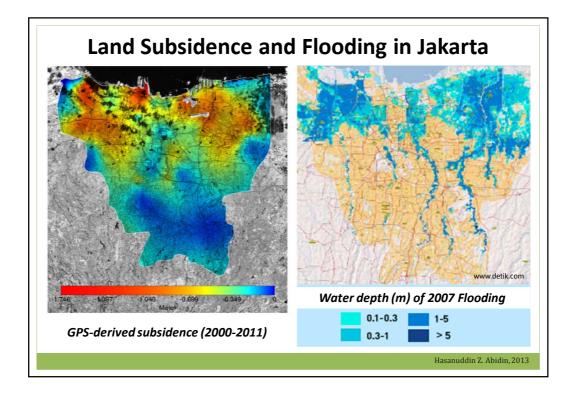


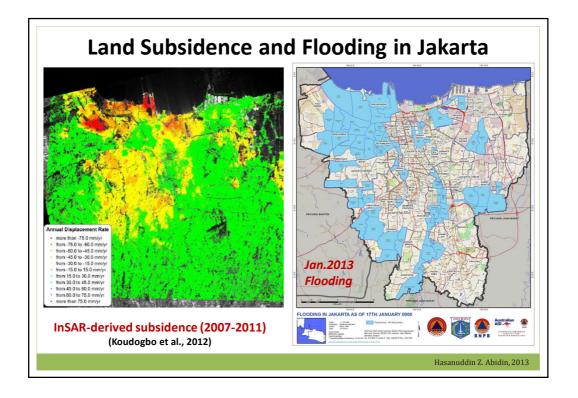


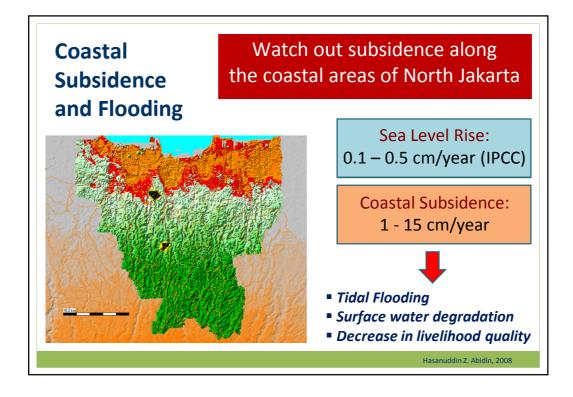


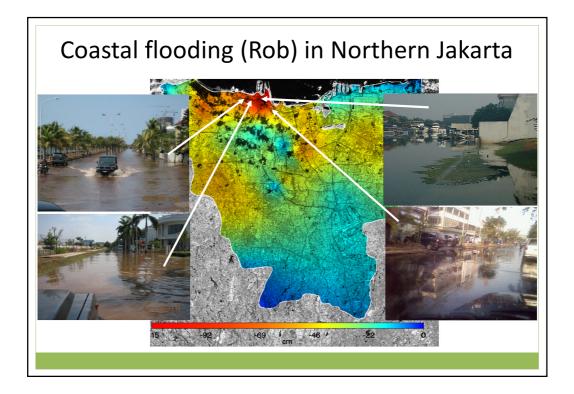










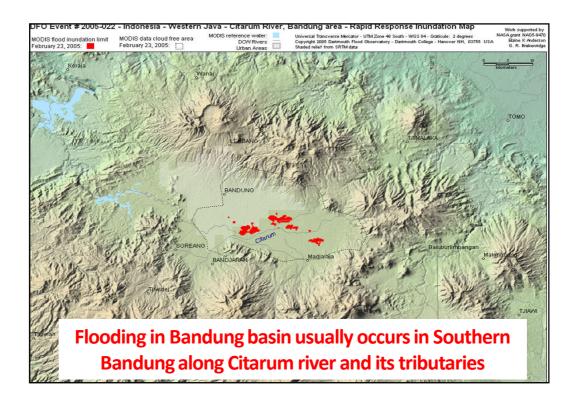


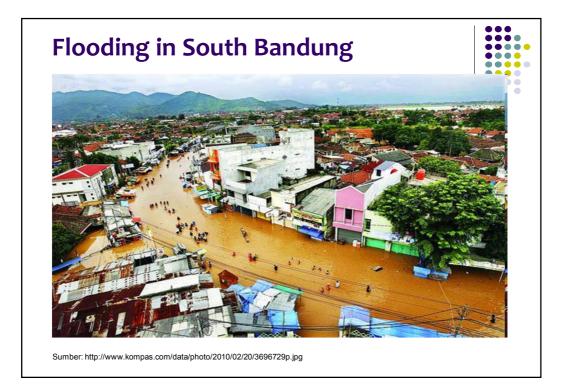


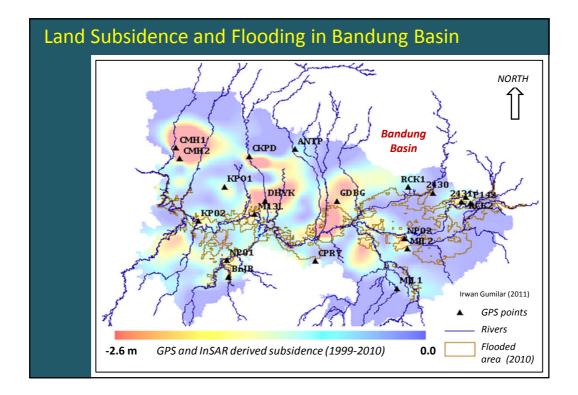


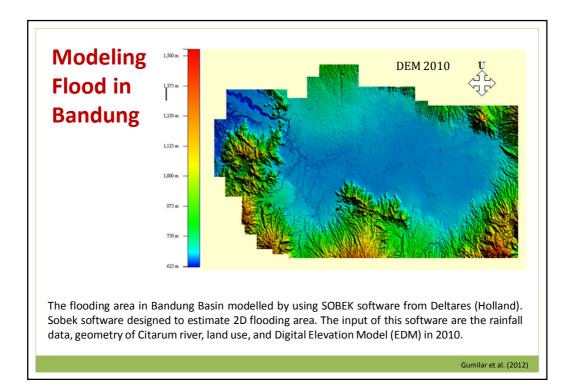


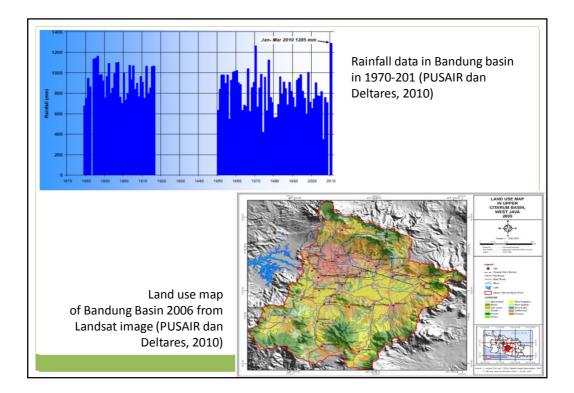


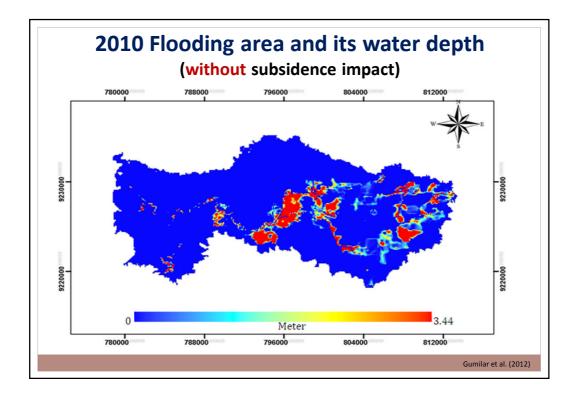


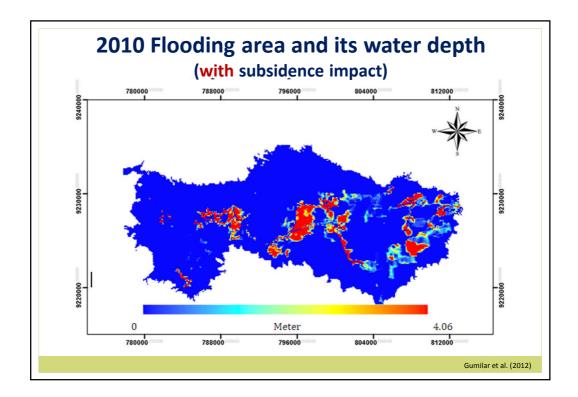


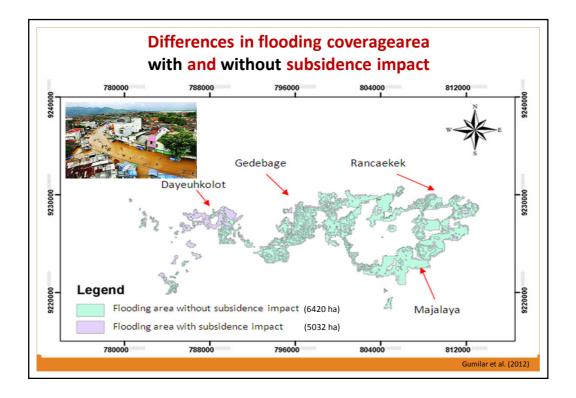


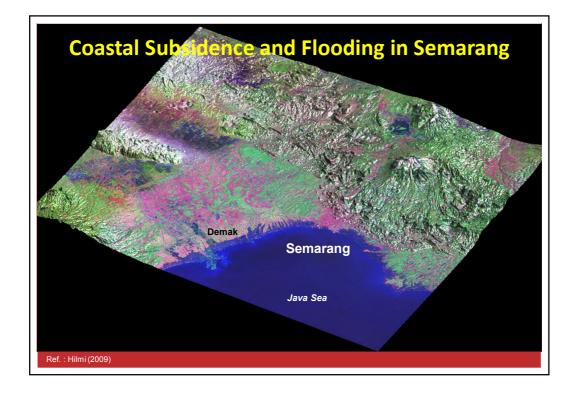


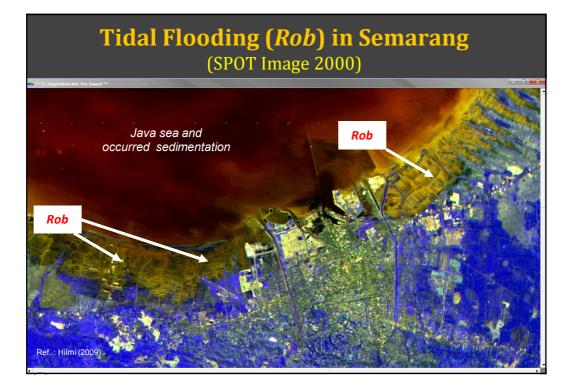




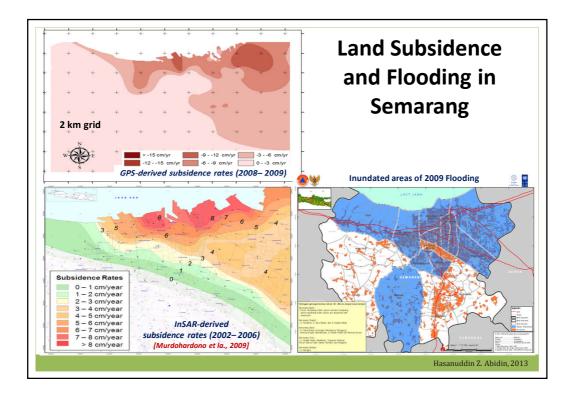


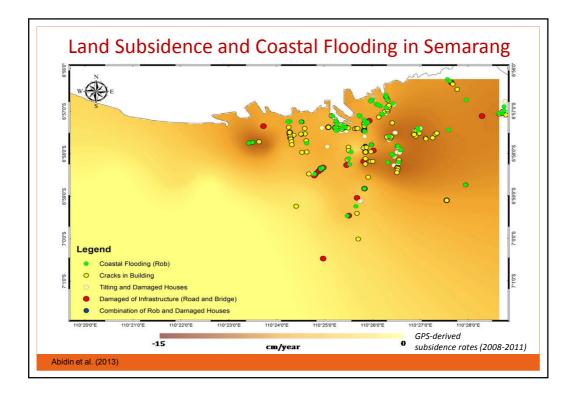


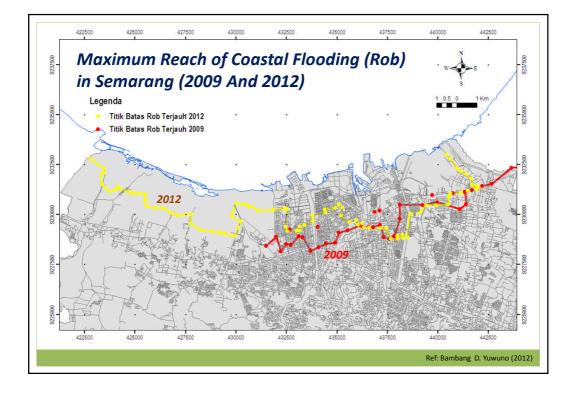












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