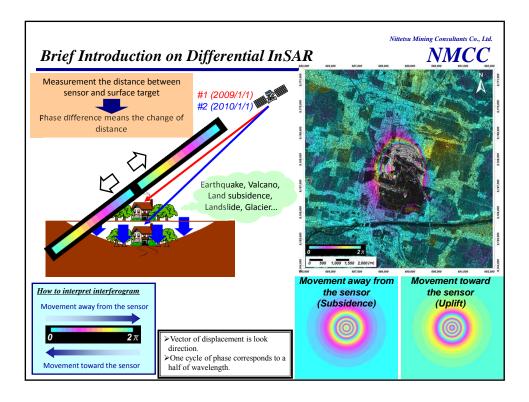
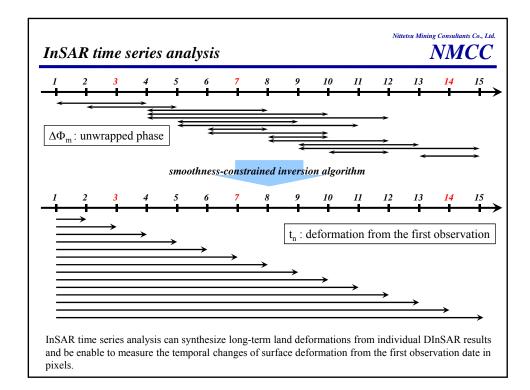
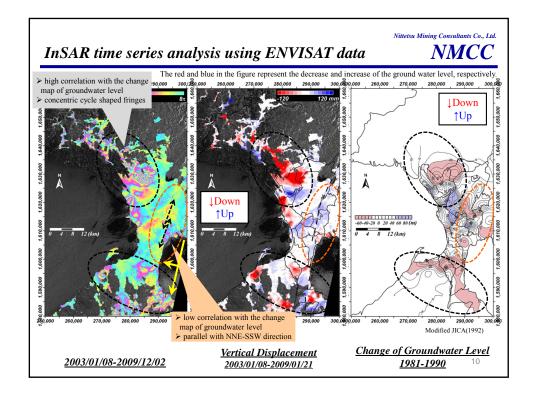


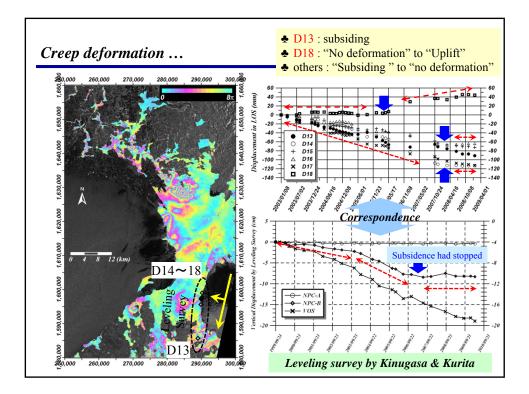
Nittetsu Mining Com Utilized Data	sultants Co., Ltd.
[Data] ENVISAT/ASAR (33 scenes) TerraSAR-X (3 scenes)	
【Observation Date】 ENVISAT/ASAR : 2003/01/08 to 2009/12/02 → InSAR time series analysis TerraSAR-X : 2008/07/08, 2009/12/29, 2010/03/27 → DInSAR	
【DEM】 SRTM3	
[Software] Personal software	6

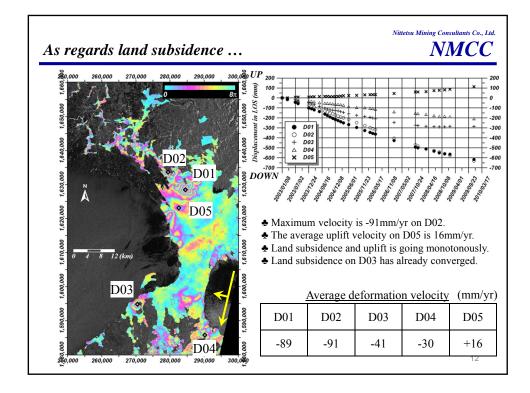




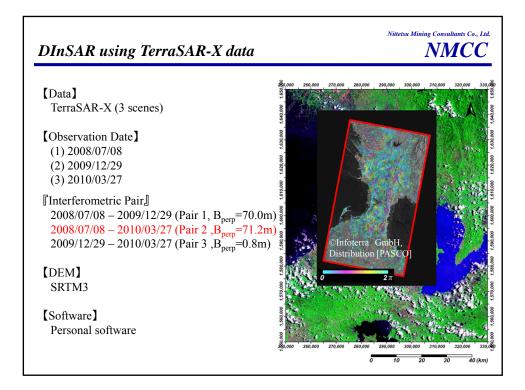
InSAR t	ime serie		Nittetsu Mining Consultants Co., Ltd. NMCC				
2003/01/08	2003/12/24	2005/01/12	2005/12/28	2007/01/17	2008/01/0	02 2009/01/21	2009/12/02
-	years 8-2009/12/0	000 000 000 000 000 000 000 000 000 000	280,000 270,000		1,550,000 1,550,000 1,520,000 1,520,000 1,530,000 1,550,000 1,550,	This movie visu increase in the 1 fringes and the the deformation over time	number of extent to which

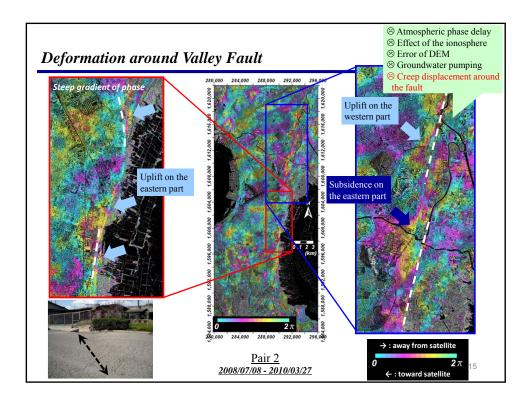






arison of se	nsor specificatio	n	NI
	ENVISAT	PALSAR	TerraSAR-X
Observation mode	IS2	Fine beam FBS/FBD	StripMap (011)
Launch	December 2002	January 2006	June 2007
Orbit height	800 km	692 km	514 km
Periodical cycle	35 days	46 days	11 days
Frequency	5.3 GHz	1.26 GHz	9.6 GHz
Band	С	L	Х
Wavelength	5.66 cm	23.6 cm	3.1 cm
Polarization	VV	HH/HH+HV	HH
Off-nadia angle	20.3 deg.	34.3 deg.	35.8 deg.
Coverage	100 km × 100 km	70 km × 70 km	30 km × 50 km
Spatial resolution	30 m	10 m/20 m	3.3 m
Critical baseline	1,250 m	16,500 m	2,400 m
Status	Orbit adjustment on October 2010	Power generation anomaly on 22nd April, 2011	Going well





Summary	tsu Mining Consultants Co., Ltd. NMCC
 InSAR time series analysis using ENVISAT data (20 → Sites in the eastern part of the Valley fault had sub- 2007, but subsidence had stopped in around 2007 (c to leveling survey). In some areas, uplift began. 	sided until
 2. DInSAR using TerraSAR-X data (2008-2010) → In the southern area of the Valley fault, sites in the part had been moving upward (correspond to InSAR series analysis) 	
➡ What does the change of displacement direction me it have any relations with earthquake??	an?? Does
 3. The first differentiation and DInSAR using TerraSAI → Steep gradient parallel to the Valley fault was clear detected in the interferogram. 	
	16

