



Science and Technology Research Partnership
for Sustainable Development : **SATREPS**



International Symposium on Earthquake & Tsunami Disaster Reduction
-Learning from the Great East Japan Earthquake-

Outputs from Peru on SATREPS Project



March 13, 2012

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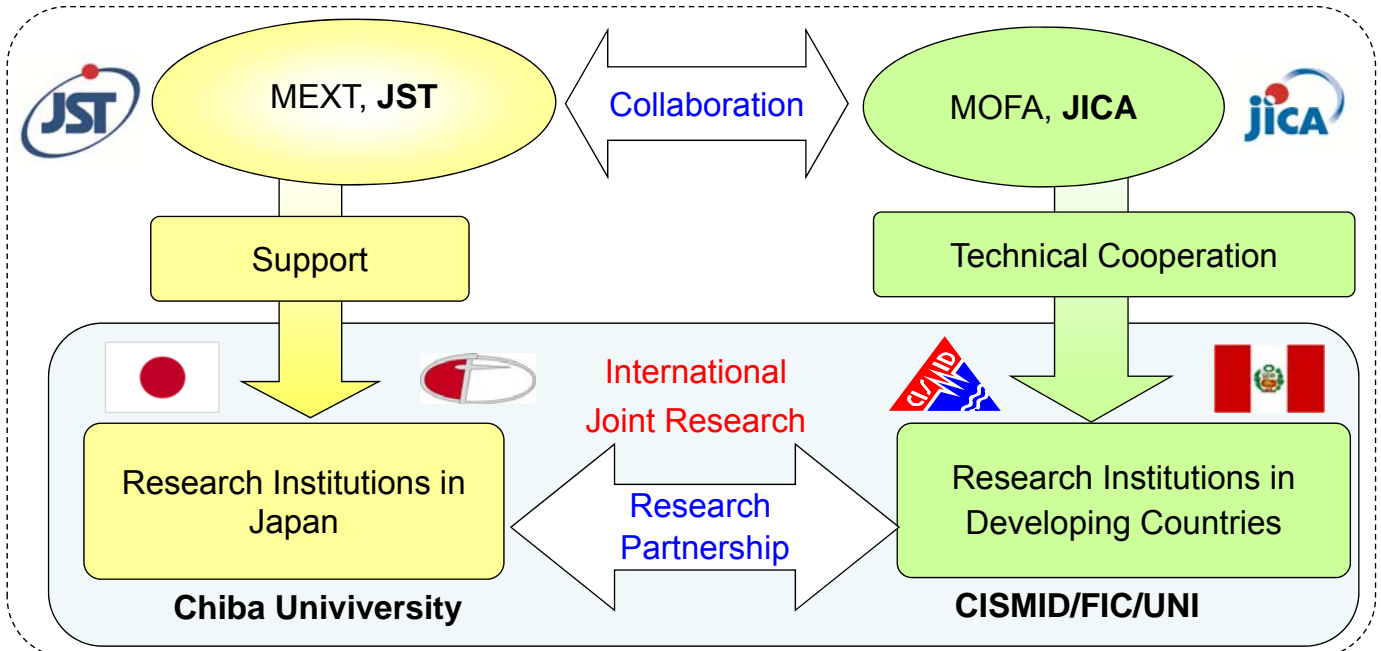


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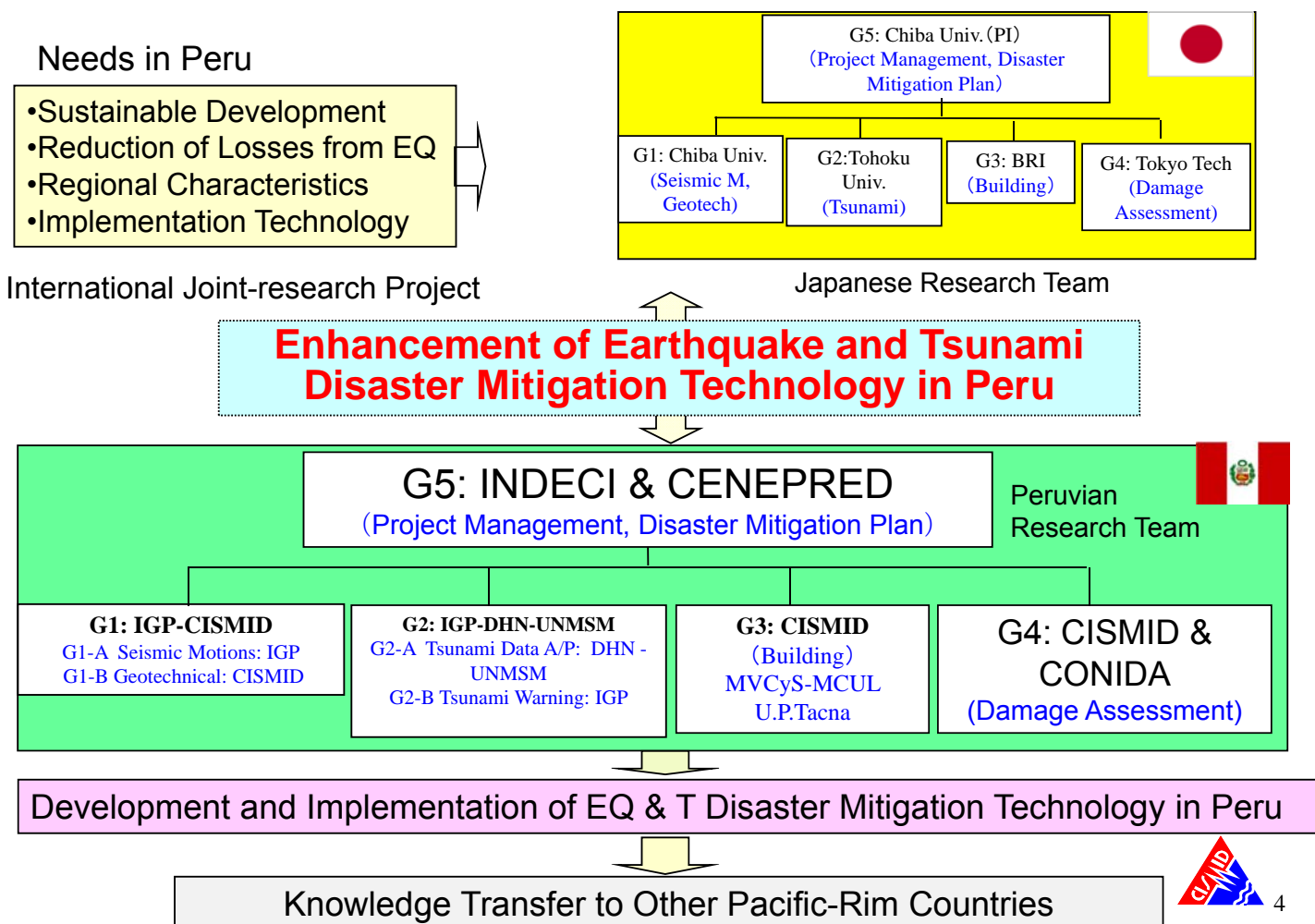


- 1) Environment and Energy
- 2) Bioresources
- 3) Natural Disaster Prevention
- 4) Infectious Diseases Control

JST: Japan Science and Technology Agency
JICA: Japan International Cooperation Agency



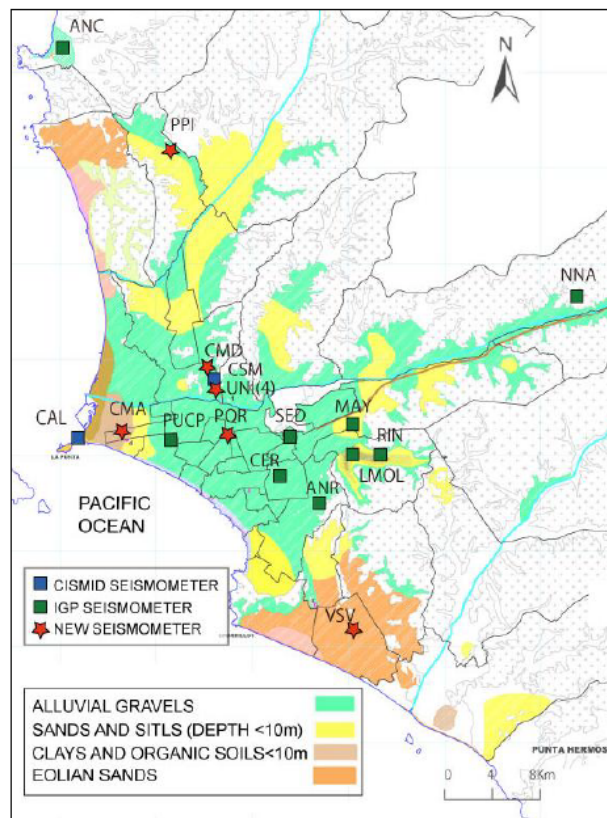
Peruvian Working Team

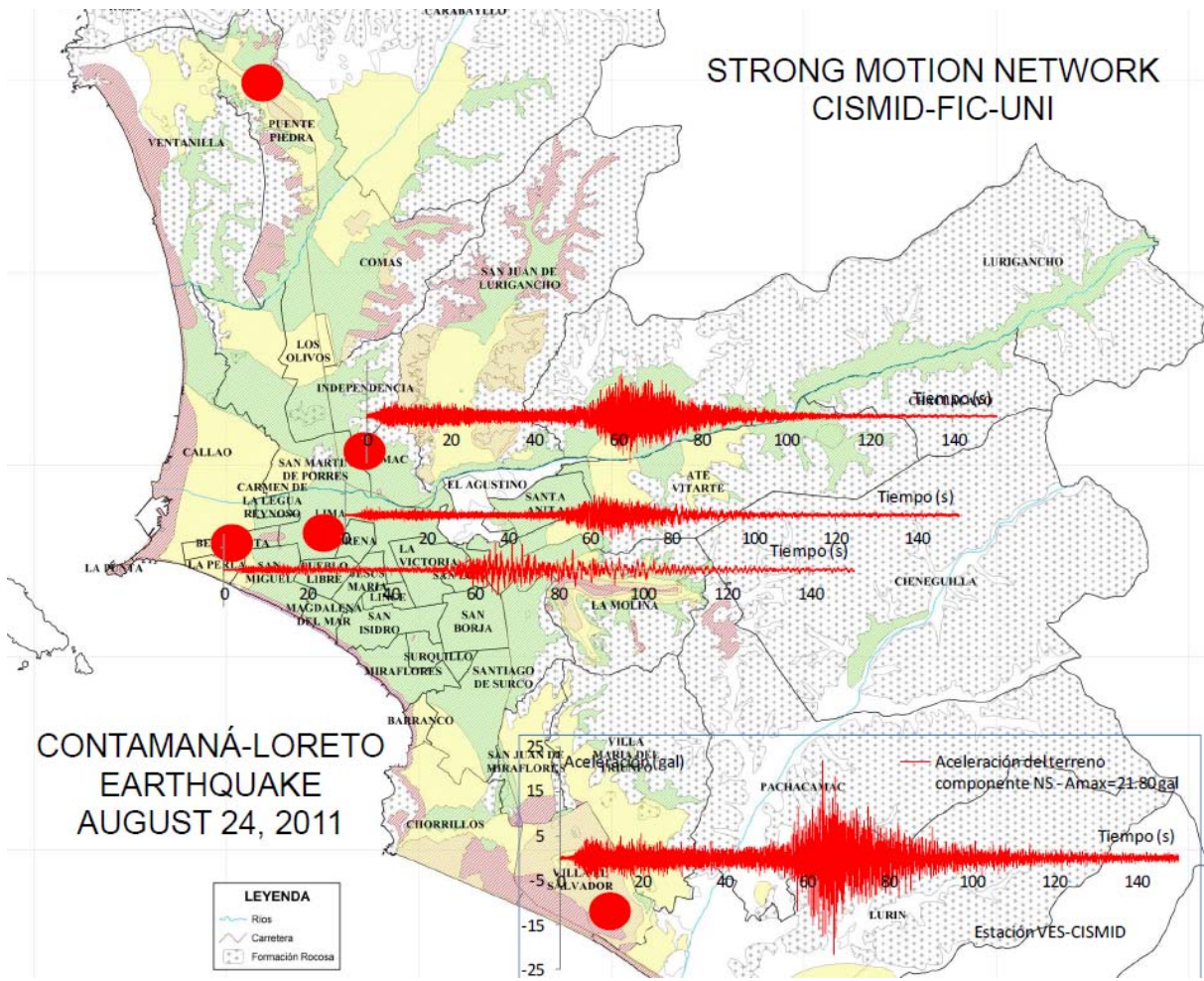


SATREPS OUTPUTS RELATED WITH APPLICATION OF NEW EQUIPMENT

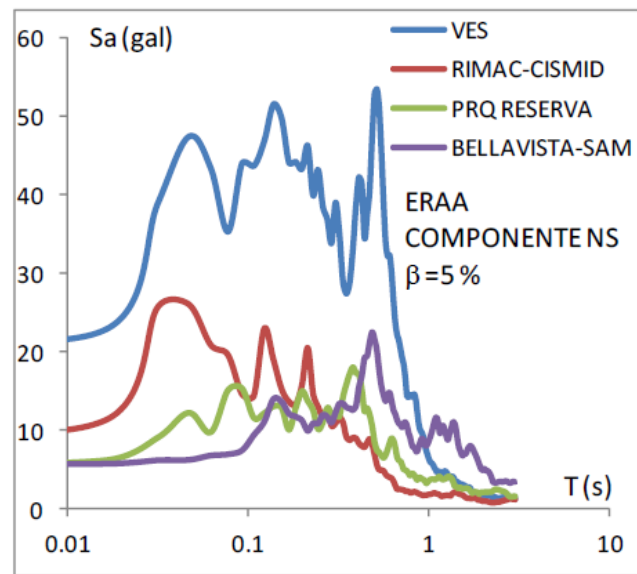
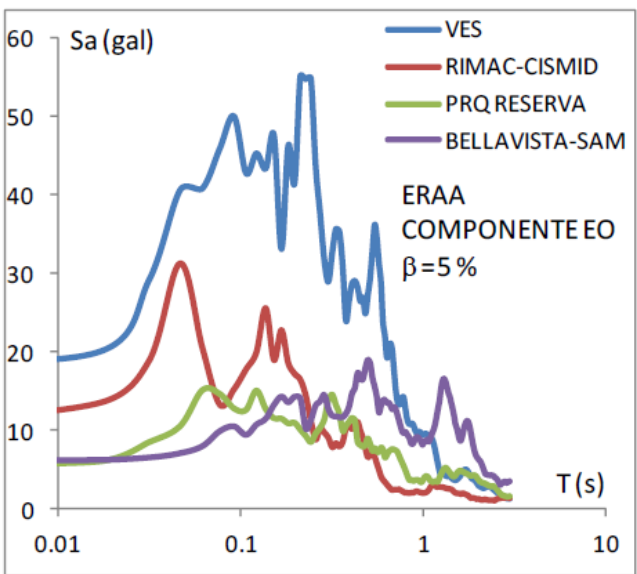


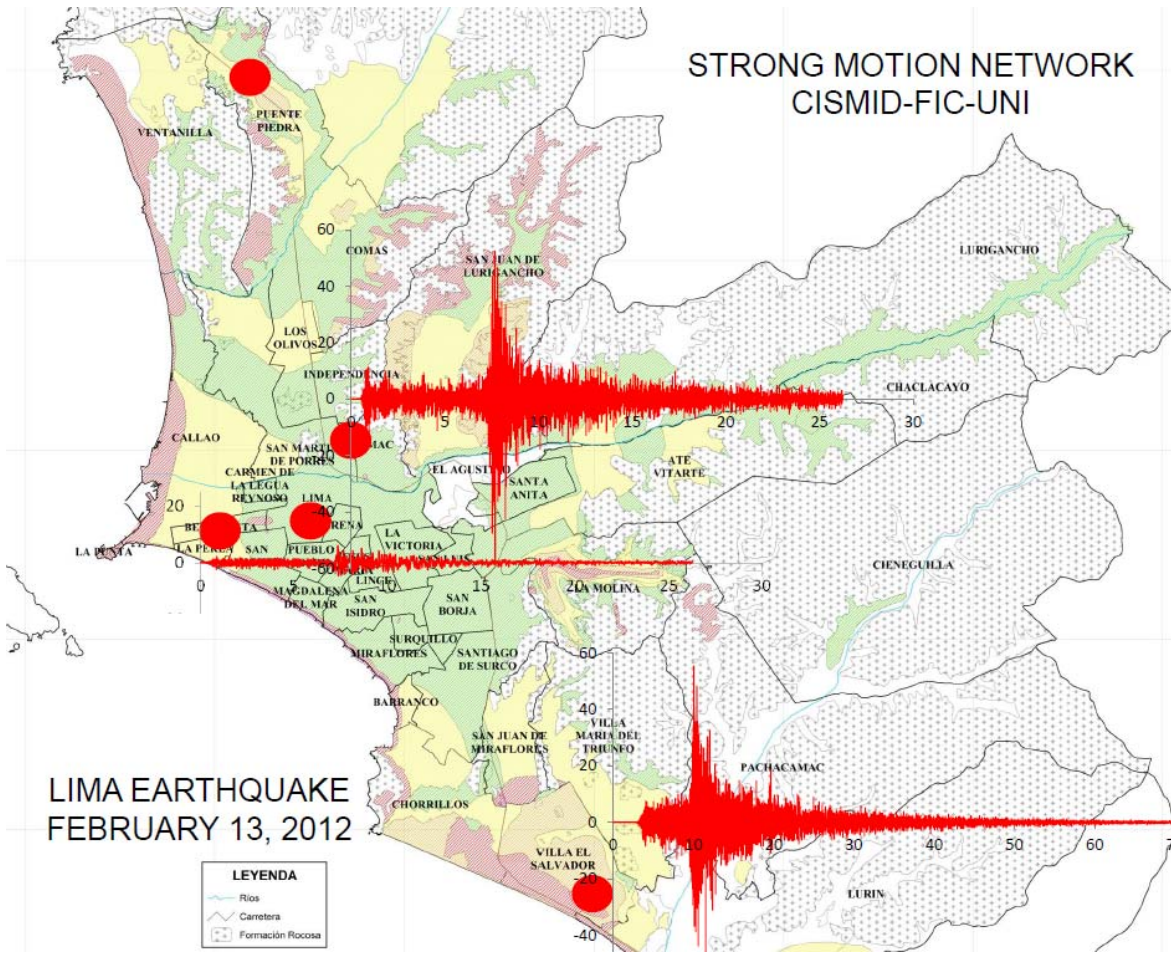
Seismometer implementation on SATREPS Project





SISMO DE CONTAMANÁ-24/08/2011 SUPERPOSICIÓN DE ESPECTROS DE RESPUESTA

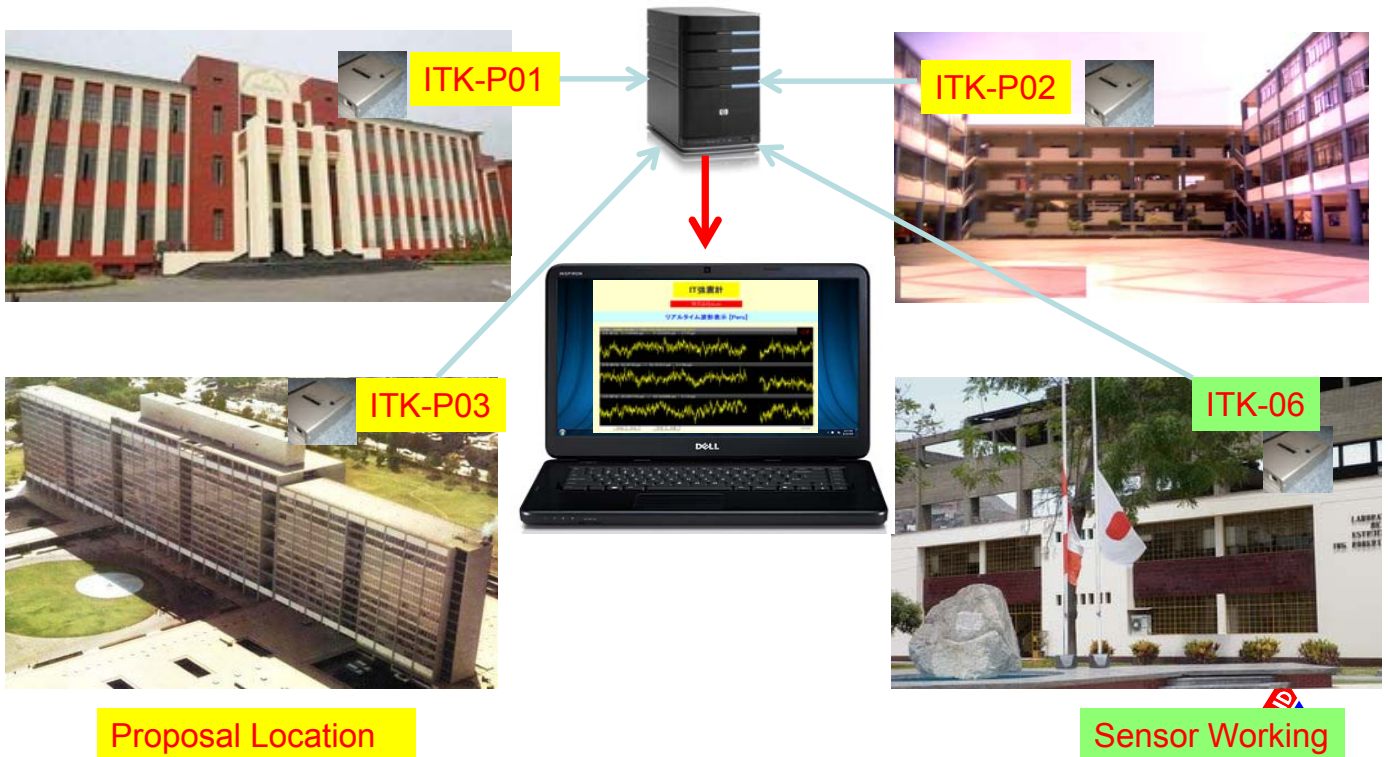




**NATIONAL UNIVERSITY OF ENGINEERING
 FACULTY OF CIVIL ENGINEERING
 JAPAN-PERU CENTER FOR EARTHQUAKE
 ENGINEERING RESEARCH AND
 DISASTER MITIGATION - CISMID**

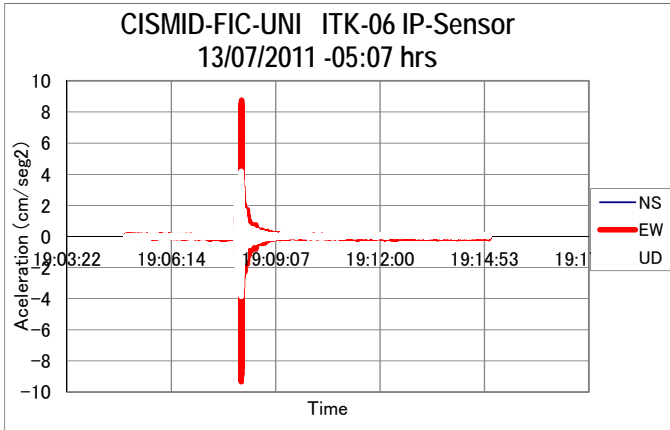
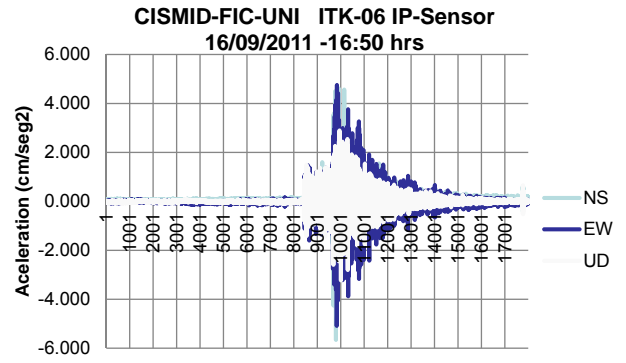


ITK Sensor Monitoring Network



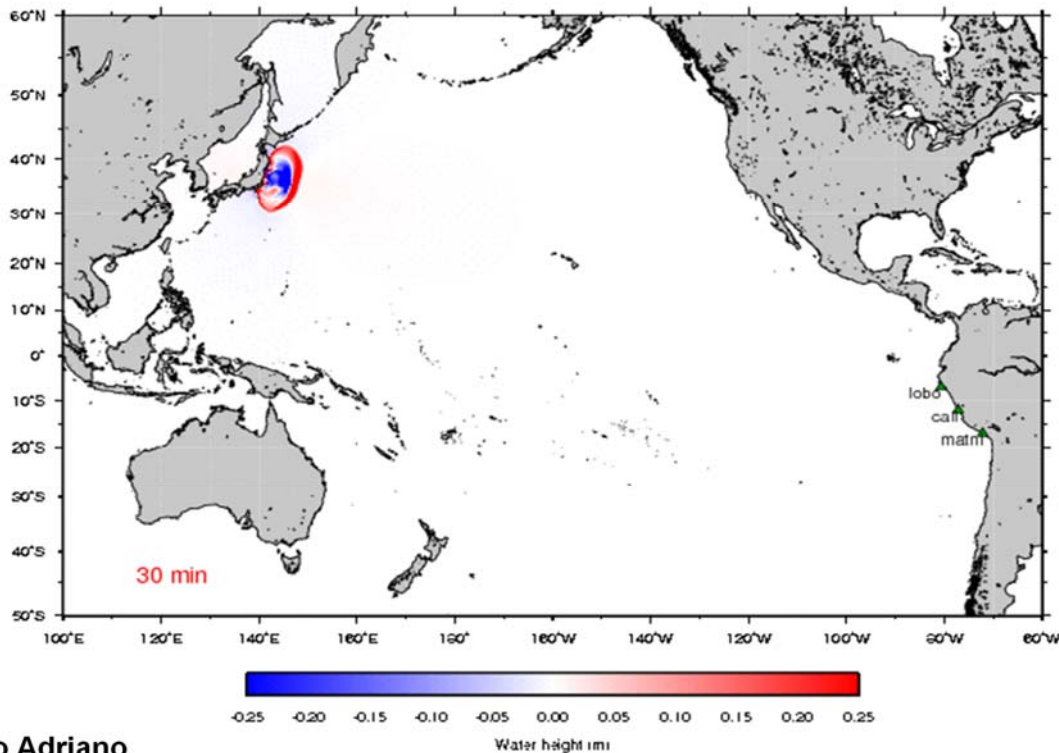


Capture Signal at Structural Lab CISMID-FIC-UNI



Wave Propagation arrival simulation to Peruvian Coastal areas on 11/3/2011 Tohoku Tsunami

2011 Japan Earthquake



Test of I-walls



Wall-01- Final State



Wall-01- Final State



LOW DUCTILITY WALL TEST

ADQUISITION SENSORS FOR MEASURING				
CH-NUMBER	RANGE	TIPO	UNIT	ORIGIN
CH-0	25	ACT. 25t/4755u	T	AXIAL LOAD
CH-1	50	JACK A	T	FEEDBACK HORIZONTAL LOAD-A
CH-2	50	JACK B	T	FEEDBACK HORIZONTAL LOAD-B
CH-3	100	CDP	mm	HORIZONTAL DISPLACEMENT SOUTH
CH-4	100	CDP	mm	HORIZONTAL DISPLACEMENT NORTH
CH-5	50	CDP	mm	HORIZONTAL DISPLACEMENT EAST H/2
CH-6	50	CDP	mm	HORIZONTAL DISPLACEMENT WEST H/2
CH-7	30	CDP	mm	HORIZONTAL DISPLACEMENT EAST H/6
CH-8	30	CDP	mm	HORIZONTAL DISPLACEMENT WEST H/6
CH-9	30	CDP	mm	VERTICAL DISPLACEMENT EAST H/6
CH-10	30	CDP	mm	VERTICAL DISPLACEMENT WEST H/6
CH-11	50	KY 2794u/FS	mm	DIAGONAL DISPLACEMENT EAST
CH-12	50	KY 2819u/FS	mm	DIAGONAL DISPLACEMENT WEST
CH-13	30	KY	mm	HORIZONTAL DISPLACEMENT EAST H/6 CENTER
CH-14	30	KY	mm	HORIZONTAL DISPLACEMENT WEST H/6 CENTER
CH-15	10	CDP	mm	HORIZONTAL DISPLACEMENT EAST BOTTON BASE
CH-16	50	CDP	mm	VERTICAL DISPLACEMENT WEST
CH-17	50	CDP	mm	VERTICAL DISPLACEMENT WEST
CH-18	50	CDP	mm	VERTICAL DISPLACEMENT EAST
CH-19	50	CDP	mm	VERTICAL DISPLACEMENT EAST
CH-20-ST 07	2000	gage factor 2.08	μ	EAST Φ 1/2 BORDES
CH-21-ST 08	2000	gage factor 2.08	μ	EAST Φ MALLA DE MURO
CH-22-ST 09	2000	gage factor 2.08	μ	EAST Φ MALLA DE CIMENTACION
CH-23-ST 10	2000	gage factor 2.08	μ	WEST Φ MALLA DE CIMENTACION
CH-24-ST 11	2000	gage factor 2.08	μ	WEST Φ MALLA DE MURO
CH-25-ST 12	2000	gage factor 2.08	μ	WEST Φ 1/2 BORDES

CONTROL SENSORS FOR DRIVE JACKS ON CONTROLLER				
CH-MONITOR	RANGE	TIPO	UNIT	ORIGIN
CH-1	50	JACK A	T	FEEDBACK HORIZONTAL LOAD-A
CH-2	100	CDP	mm	JACK CONTROL MASTER
CH-3	50	JACK B	T	FEEDBACK HORIZONTAL LOAD-B
CH-4	-----	-----	-----	-----

CISMID/FIC/UNI-JICA SATREPS Project
Low ductility concrete wall - Wall 02
18/02/2012

