

# IRDR-Japan Report

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# New IRDR-Japan

- Renewed as a SCJ regular committee (travel costs supported)
- Initial members 15 (one lady Shigeko Haruyama, geographer)
- First meeting on 24 April, 2012
- Chair: Toshio Koike (CE) & Vchair: Haruo Hayashi (Psy)
- Secretaries: Kenji Satake (EQ) & Kenichi Tsukahara (CE)



# Agenda

- Contribution to FORIN and others.
- Organize a team for Standard for a major contribution.
- Cooperation with IRDR-China
- Organizing a Japanese symposium on IRDR.
- Next planning meeting after the SC7 in Ravello to discuss about national contribution to IRDR.
- Meeting with IRDR Chair Salvano Breceno



# Disasters affecting Japan

- 11 Mar 2011: GEJET and aftershocks:
- 2011: Torrential rains in Kii-Peninsula ~100 people died.
- Sep-Dec 2011: Thailand Chao Phraya Flood.
- 6 May 2012: Tornados in Northern Kanto region, 1 dead, 400 injured, over 1900 houses damaged

Tornado around 1:30 on 6 May 2012  
In 7 prefs centered in N. Kanto, Japan  
1 died, 400 injured  
Size in Tsukuba area: 500mx15km



7 May 2012



# GEJET updates

- 10 May 2012 at 7<sup>th</sup> IRDR SC, Ravello, Italy
- K. Takeuchi, S. Tanaka, T. Okazumi & M. Sugimoto, ICHARM



Minamisannriku-cho,  
Shizukawa District  
2011.7.22



# (1) Damages

- Dead & Missing: 18,900
- Evacuated: over 300,000
- Inundated area: 561 km<sup>2</sup>
- Over 50% destroyed houses: 380,000
- Debris produced: 22.7-26.7 Million ton
- Total direct damages: 16-25 Trillion yen
- Constructed temporary houses: 53 089 (2012.5.1)
- Municipalities wishing move to highland: 25 out of 31



## (2) Debris

- Iwate, Miyagi & Fukushima: 22.51 Million ton
- Disposal completed (Hosono, ME: 8 May 2012)
  - 12.3% in 7 May 2012
  - 9.0% in 23 April 2012    accelerating
  - Either burned at burning stations or reused
  - Fukushima area is low % as some areas cannot be stepped in.

# (3) Against Tsunami

- Basic idea:
  - Level 1 Tsunami (largest in the modern history: around 100 years rp)
  - Level 2 Tsunami (Highest class: 1000 years rp)
- For  $EQ > M8$ , no tsunami height will be announced except “giant” or “high” to avoid wrong understanding
- Kamaishi Submerged Seawall (69 m Guinness recorded): Reconstruction started on 26 Feb 2012 with 49 B yen

## (4) Reconstruction laws

- **Basic law of reconstruction from GEJE**
- Promotion law for tsunami counter measures
- Special law for disaster debris treatment
- Establishment of Recovery Support Co. Ltd. to help companies affected by GEJE
- Law of designating special reconstructn area
- Community reformation law
- **Establishment law of Reconstruction Agency**
- (established Feb 2012)
- Several laws for nuclear power problems

## (5) Nuclear contm & po stations

- After a stress test, Ooihara 2 an 4 stn in Fukui pref are reported safe and Minister of Economy & Industry requested agreement to resume operation to Governor of Fukui pref. He refused it on 2012/4/14 saying “difficult to get agreement of the people of the pref.”
- 2012/5/7 All 50 operational stations in Japan (other than destroyed 4 in Fukushima) stopped operation. Last one “Tomari no. 3” in Hokkaido went into the periodical check.



# Many current problems

- Nucl contam area in Fukushima: cannot return
- Debris: few municipalities accept for deposit
- Seawall reconstruction delayed due to debris
- Emgncy houses: Res fear 2y lim, lonely deaths
- Agriculture: Diff in inundated or subsided areas
- Delay in municipal reconstruction planning
- Rumor damages of agric products by nuclear c
- High unemployment rate in damaged areas
- Problem of Recon Agency: delayed & personnel
- Health: Trauma treatment delayed
- Stagnating funds: nat gov, insur, dontn, saving