

### **Outside Assistance**

- · Big events usually need outside assistance
- Frequency is such that not many countries capable of acting alone
- Tier System, from local up to regional/global calling on other States and Industry stockpiles/services
- SEA EMPRESS –assistance from the Netherlands (Regional agreement – Bonn Agreement
- PRESTIGE numerous vessels from all over Europe
- NAKHODKA Russian vessels. But exercised together?
- · Contingency plans and experienced personnel
  - eg AMOCO CADIZ, ERIKA & PRESTIGE
  - eg AEGEAN SEA, PRESTIGE



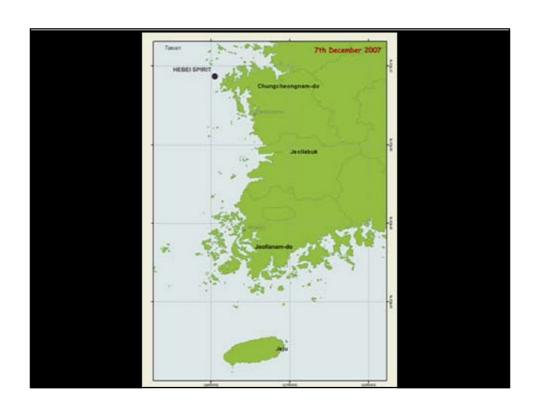
# NAKHODKA • 2nd January 1997 • 70 miles NE of Oki Islands, Sea of Japan • 13,159 GT, passing tanker - broke in two • Fuel oil as cargo • 6,200 tonnes spilled immediately • Proportion of 2,800 tonnes spilled from bow, which later stranded on shore at Mikuni • Sunken stern - original estimates were 3 -15m3/day leaking • 1,000km of coastline oiled, 10 Prefectures





# **HEBEI SPIRIT**

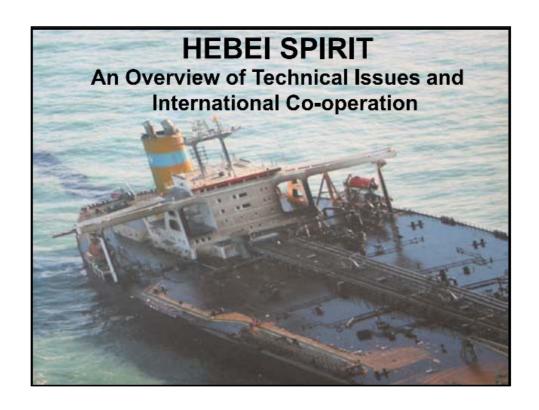
- 7 December 2007
- Taean, Republic of Korea
- Fully Laden 264,000 tonnes
   (Iranian Heavy, Upper Zakum,
   Khafji, Kuwaiti Export crudes)
- Around 10,800 tonnes spilled
- HOSCO (Hong Kong)
- Skuld P&I Club
- 1992 IOPC Fund
- ITOPF mobilised immediately













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# **HEBEI SPIRIT**

- Largest spill of recent years
- Korea's largest spill ever
- Wide geographic spread
- Socio-economic impact
- Extensive fisheries & mariculture
- National Marine Park
- Tourist interests







# INTERNATIONAL ASSISTANCE - GOVERNMENT

NOWPAP – North West Pacific Action Plan (China, Japan, Republic of Korea, Russia)

Country	Resource
China	1 expert Shanghai MSA 65t of chemical & absorbents (20t on 14 <sup>th</sup> Dec)
Japan	Japanese International Cooperation Agency (JICA) sent 6 experts – JCG and Japanese Disaster Relief (JDR) - 15th - 23rd Dec 40t absorbent (19th Dec)
Russia	50t absorbent

IMO supported MERRAC

# INTERNATIONAL ASSISTANCE - GOVERNMENT

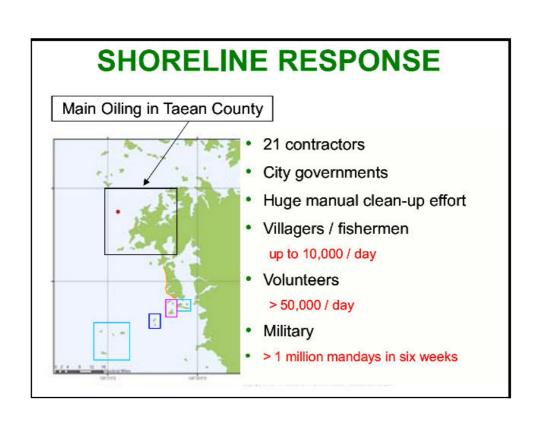
### Outside Region Assistance

Country	Resource
USA	4 experts - 2 x Coastguards & 2 x NOAA (SSC)
United	10 experts – OCHA (Office for Coordination
Nations &	Humanitarian Affairs), UNEP, MIC (Monitoring &
European	Information Centre – 15th - 22nd Dec
Commission	
Canada	6 Experts – Environment Canada to assist
	training in shoreline surveys / clean up

# ITOPF Shipping industry co-operation

- · Mobilised immediately, on-site next day
- Remained continually on-site through to June (6 months). 2-3 people for first months
- >700 mandays in first year
- · ITOPF's largest spill in terms of days on-site
- Claims assesment continues for foreseeable future













# **VOLUNTEERS**

- · Asset or liability?
- Encouraged or prohibited?
- · Control and supervision
- Own agenda
- Inexperienced / untrained
- Safety and welfare / PPE
- · Logistics / transporting / feeding
- Human spirit
- · Efficient / useful work
- Free?



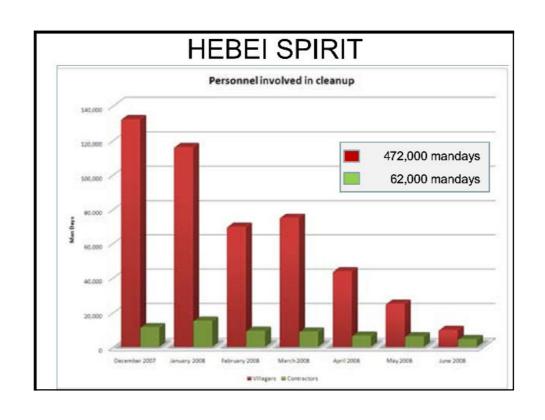


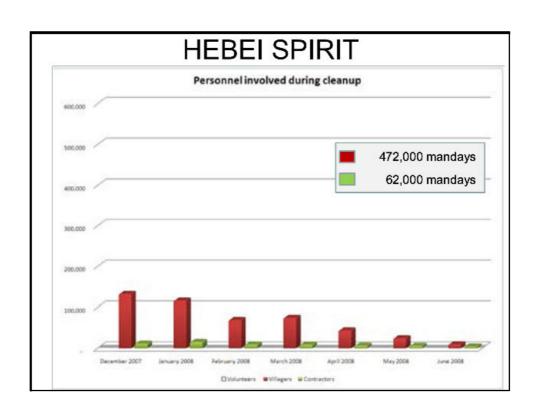


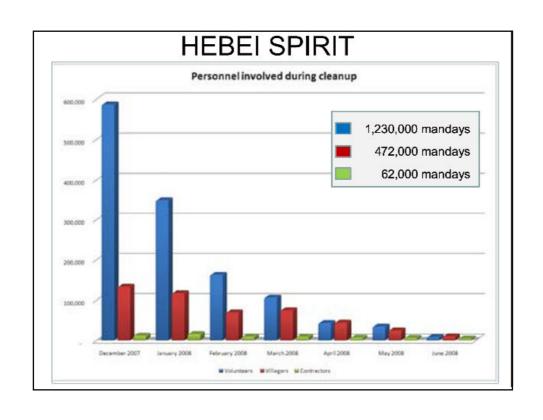












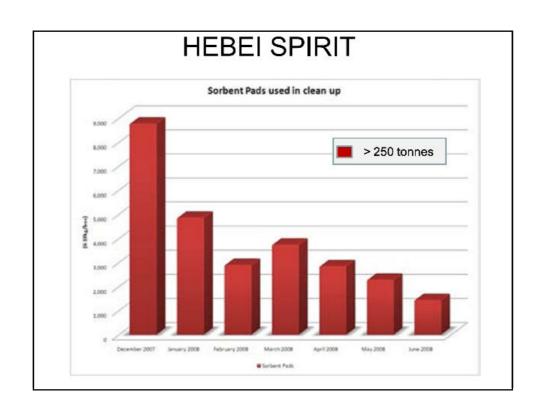
























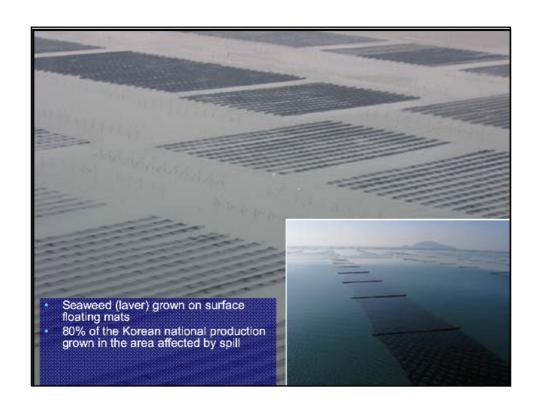


















# **ISSUES DISCUSSED**

- International Co-operation
  - Regional Agreement (NOWPAP) and other State assistance. Operational multilateral agreements
  - Govt & Industry cooperation (ADDS pack dispersant)
- Technical Issues
  - huge manual workforce
  - villagers & volunteers (non-professionals)
  - sorbent and rag use
- · Clean up criteria
  - techniques
  - how clean is clean?
  - Political vs technical? Compensation