Identifying natural disasters

GLIDE as a tool to bridge between scientific community and DRR policy makers

Global Forum on Science and Technology for Disaster Resilience 2017
Plenary Discussion 1: Priority Action 1
23rd, November, 2017
Science Council of Japan and National Art Center, Tokyo JAPAN
ADRC has been working with its 30 member countries

<table>
<thead>
<tr>
<th>Member countries</th>
<th>Advisors &amp; Observer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998 Bangladesh, Cambodia, China, India, Indonesia, Japan, Kazakhstan, Korea, Laos, Malaysia, Mongolia, Myanmar, Nepal, Papua New Guinea, Philippines, Russia, Singapore, Sri Lanka, Thailand, Tajikistan, Uzbekistan, Viet Num</td>
<td>Australia, Switzerland, New Zealand, France Asian Disaster Preparedness Center (ADPC)</td>
</tr>
<tr>
<td>2000 Armenia</td>
<td></td>
</tr>
<tr>
<td>2002 Kyrgyz Republic</td>
<td></td>
</tr>
<tr>
<td>2004 USA</td>
<td></td>
</tr>
<tr>
<td>2005 Pakistan</td>
<td></td>
</tr>
<tr>
<td>2007 Bhutan, Yemen</td>
<td></td>
</tr>
<tr>
<td>2009 Azerbaijan</td>
<td></td>
</tr>
<tr>
<td>2010 Maldives</td>
<td></td>
</tr>
<tr>
<td>2012 Iran</td>
<td></td>
</tr>
</tbody>
</table>

1. Information and knowledge sharing
2. Human Resources Development
3. Cooperation with Member Countries, International/Regional Organizations and NGOs
Identifying natural disasters

GLIDE: GLocal Unique Disaster IDENTifier

ADRC has been proposing GLIDE for effective sharing of disaster information from diverse databases by different organizations

Case of Typhoon no. 21 LAN

TC-2017-000153-JPN

Hazard Code Year Serial Number ISO Country Code

# Backgrounds of GLIDE

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998 July</td>
<td>ADRC was established in Kobe, Japan</td>
</tr>
<tr>
<td>2001 March</td>
<td>ADRC proposed a Disaster Unique ID, a prototype of GLIDE</td>
</tr>
<tr>
<td>August</td>
<td>The name GLIDE was agreed by Relief Web, IFRC, FAO, ISDR, UNDP, LaRED, WB at the Technical Advisory Group Meeting by CRED in Brussels</td>
</tr>
<tr>
<td>2002 January</td>
<td>GLIDE number issuing has been initiated by CRED</td>
</tr>
<tr>
<td>2004 May</td>
<td>GLIDENUMBER.NET has come into operation</td>
</tr>
<tr>
<td>2005 March</td>
<td>WCDR in Hyogo: GLIDE As the common international language</td>
</tr>
<tr>
<td>2006</td>
<td>GLIDE number has become a basic information for Sentinel Asia operation</td>
</tr>
<tr>
<td>2007</td>
<td>ADRC obtained registration of EU Trademark for GLIDE</td>
</tr>
<tr>
<td>2008 -2016</td>
<td>ADRC undertook an ASEAN cooperation project of Capacity building</td>
</tr>
<tr>
<td></td>
<td>Training targeting for 10 ASEAN countries.</td>
</tr>
<tr>
<td>2015 March</td>
<td>WCDRR: Informal UN-ISDR-ADRC informal exchanges on GLIDE</td>
</tr>
<tr>
<td>2016 February</td>
<td>ACDR2016 in Phuket: A follow up Workshop on ASEAN Cooperation Project</td>
</tr>
<tr>
<td>November</td>
<td>AMCDRR at Delhi, in a Thematic Event “Partnerships and Innovations for improving Disaster Loss Accounting”</td>
</tr>
<tr>
<td>GLIDE number</td>
<td>Event</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------</td>
</tr>
<tr>
<td>EQ-2017-000167-KOR</td>
<td>Earthquake</td>
</tr>
<tr>
<td>FL-2017-000166-MYS</td>
<td>Flood</td>
</tr>
<tr>
<td>EQ-2017-000165-IRN</td>
<td>Earthquake</td>
</tr>
<tr>
<td>EQ-2017-000165-IRQ</td>
<td>Earthquake</td>
</tr>
</tbody>
</table>
GLIDE numbers for recent typhoons affecting Japan

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Dates</th>
<th>GLIDE number</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.21</td>
<td>LAN</td>
<td>23rd Oct.</td>
<td>TC-2017-000153-JPN</td>
<td>Tropical Cyclone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shizuoka</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.5</td>
<td>NOLU</td>
<td>9th Aug.</td>
<td>TC-2017-000103-JPN</td>
<td>Tropical Cyclone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wakayama</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.3</td>
<td>NANMADOLAN</td>
<td>4th Jul.</td>
<td>FL-2017-000082-JPN</td>
<td>Flood</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nagasaki</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GLIDE as an effective information sharing tool for multi-national disasters

26/Dec/2004

- Tsunami hits Sumatra in Indonesia
- Tsunami hits Phuket and southern Thailand
- Tsunami hits northern Malaysia
- Tsunami hits southern Sri Lanka
- Tsunami hits Southeast India
- Tsunami hits Myanmar
- Tsunami hits Bangladesh
- Tsunami hits Maldives
- Tsunami hits Somalia
Identifying a typhoon and relevant disasters affecting many countries

<table>
<thead>
<tr>
<th>Date</th>
<th>Phenomena</th>
<th>GLIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/Sep/04</td>
<td>ADRC generate GLIDE for typhoon A</td>
<td>TC-2004-000187-</td>
</tr>
<tr>
<td>07/Sep/04</td>
<td>Many houses were lost in the Philippines</td>
<td>TC-2004-000187-PHL</td>
</tr>
<tr>
<td>12/Sep/04</td>
<td>200 people evacuated to avoid Storm Surge in China</td>
<td>SS-2004-000187-CHI</td>
</tr>
<tr>
<td>15/Sep/04</td>
<td>10 people dead by Landslide in Korea</td>
<td>LS-2004-000187-KOR</td>
</tr>
<tr>
<td>17/Sep/04</td>
<td>1000 houses were flooded in Japan</td>
<td>FL-2004-000187-JPN</td>
</tr>
</tbody>
</table>
GLIDE numbers for major natural disasters (2010-)

<table>
<thead>
<tr>
<th>Dates</th>
<th>Natural Disasters</th>
<th>GLIDE number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010 January</td>
<td>Haiti: 2010 Haiti earthquake</td>
<td>EQ-2010-000009-HTI</td>
</tr>
<tr>
<td>2010 April</td>
<td>China: Qinghai Earthquake</td>
<td>EQ-2010-000073-CHN</td>
</tr>
<tr>
<td>2010 July</td>
<td>Pakistan: Flood</td>
<td>FL-2010-000141-PAK</td>
</tr>
<tr>
<td>2010 June</td>
<td>China: 2010 Flood</td>
<td>FL-2010-000122-CHN</td>
</tr>
<tr>
<td>2011 March</td>
<td>Japan: The Great East Japan Earthquake</td>
<td>EQ-2011-000028-JPN</td>
</tr>
<tr>
<td>2011 December</td>
<td>Philippines: Tropical storm Washi/Sendong</td>
<td>TC-2011-000189-PHL</td>
</tr>
<tr>
<td>2012 December</td>
<td>Philippines: Tropical typhoon Pablo/Bopha</td>
<td>TC-2012-000197-PHL</td>
</tr>
<tr>
<td>2013 June</td>
<td>India: Flood in northern India</td>
<td>FL-2013-000070-IND</td>
</tr>
<tr>
<td>2013 November</td>
<td>Philippines: Typhoon Haiyan/Yolanda</td>
<td>TC-2013-000139-PHL</td>
</tr>
<tr>
<td>2015 April</td>
<td>Nepal: Earthquake</td>
<td>EQ-2015-000048-NPL</td>
</tr>
<tr>
<td>2016 April</td>
<td>Japan: Earthquakes in Kumamoto</td>
<td>EQ-2016-000033-JPN</td>
</tr>
<tr>
<td>2017 September</td>
<td>Mexico: Earthquake</td>
<td>EQ-2017-000138-MEX</td>
</tr>
</tbody>
</table>
GLIDE and DRR information Dissemination

GLIDE numbers issued between 2001 to 2016 amounted to approximately 5200 including 180 in 2015 and 140 in 2016
Glide numbers by types of natural disasters (2000-2016)
GLIDE number issued so far by region

Africa

Americas

Asia

Europe

Oceania

- Tropical Cyclone
- Extratropical Cyclone
- Tornadoes
- Severe Local Storm
- Flash Flood
- Wave/Surge (use TS/SS instead)
- Violent Wind
- Land Slide
- Storm Surge
- Snow Avalanche
- Mud Slide
- SLIDE (use LS/ AV/MS instead)
- Tsunami
- Earthquake
- Volcano
- Wild fire
- Earthquake
- Drought
- Cold Wave
- Extreme temperature
- Heat Wave
GLIDEnumber Search

Select Continent: Any
Africa
Americas
Asia
Europe
Oceania

Select Country: Any
(Non-Localized)
Afghanistan
Albania
Algeria
American Samoa
Angola
Annuilla

Select Event: Any
CW - Cold Wave
CE - Complex Emergency
DR - Drought
EQ - Earthquake
EP - Epidemic
EC - Extratropical Cyclone
ET - Extreme Temperature (use CW/HW instead)

Use Ctrl-Click and/or Shift-Click for multiple selections. If NO selections are made, ALL items will be selected.

Type keywords: Looking for: All Words

Search between these dates: From: 2017/11/12 To: 2017/11/22

Hits per page: 25

Sorted by: GLIDE

Search Results:

6455 hits 259 Pages: 1 2 3 4 5 6 7 8 9 10 →

EQ-2017-000167-KOR Earthquake, Korea Republic:
The 5.4 magnitude tremor hit the south-eastern port city of Pohang in the afternoon, and dozens of aftershocks have occurred since. It has left at least 57 people injured and more than 1,500 homeless.

EQ-2017-000165-IRo Earthquake, Iraq:
On 12 November 2017 at 21:18 local time (18:18 UTC) northeast Iraq experienced an earthquake in the magnitude of 7.3 on the Richter scale, according to United States Geological Survey (USGS). There have been nine reported fatalities and over 550 people injured in Iraq.

EQ-2017-000165-IRN Earthquake, Iran, Islamic Republic:
At 21:18 local time (18:18 UTC) northwest Iran/northern Iran experienced an earthquake in the magnitude of approximately 7.2 - 7.5, according to European-Mediterranean Seismological Centre (EMSC). The epicenter of this earthquake is located 32kms from the city of Halabja. The earthquake was felt across Iraq, including in the cities of Baghdad, Erbil, Sulaymaniya, Kirkuk and...
Next stages of DRR indicator and GLIDE

Building DRR knowledge bases to promote the Sendai Framework

UN General Assembly endorsed the Report of the Open-ended Intergovernmental Expert Working Group on Indicators and Terminology in February 2017 (A/RES/71/276), and countries are expected to start working on their own indicators.

On which disasters?

GLIDE could be used as a key tool to:
- identify together, natural disasters on which we need information
- link databases developed for diverse DRR purposes by different organizations and
- share the information and establish knowledge bases for DRR to promote the Sendai Framework.
Next steps for GLIDE
towards building DRR knowledge bases

Encourage countries, international organizations and experts to refer to GLIDE numbers in the reports and records to facilitate DRR information sharing and matching.

Increase training opportunities

Reshape GLIDE networks

Address wider audience beyond DRR stakeholders so that GLIDE could be linked with diverse information provided on internet and by media.
Asian Conference on Disaster Reduction and ADRC

2003: January
Kobe, Japan

2004: February
Siem Reap, Cambodia

2005: WCDR,
Hyogo, Japan

2006: March
Seoul, Korea

2007: June
Astana,
Kazakhstan

2008: 12-14 Nov.
Bali, Republic of Indonesia

2010: January
Kobe, JAPAN

2011: June
Colombo,
Sri Lanka

2013: January
Kobe, JAPAN

2014: 4-6 March
Tokyo, JAPAN

2015: WCDRR
Sendai & ACDR
15 March 2015

2016: Feb.
Phuket
Thailand

2017: October
Baku, Azerbaijan

ACDR2018 Oct., 2018
Awaji, Hyogo, Japan
Steps towards the 20\textsuperscript{th} anniversary of ADRC

ADRC will commemorate its 20th anniversary in 2018 and has been discussing the DRR priorities for another two decades facing Asia.

2017  
October 2-3  
ACDR 2017 in Baku, Azerbaijan

2018  
July 30\textsuperscript{th}  
The 20\textsuperscript{th} anniversary of ADRC

End of October  
ACDR2018, in Awaji, Japan


Awaji international Conference Centre for ACDR2018
Kobe has seen both earthquakes and water related disasters

1925 Northern Tajima Earthquake
(M.6.8 More than 400 killed)

1938 The Great Hanshin Flood
(Killed: 671, missing: 24)

1967 The heavy rainfall
(killed 90, missing: 8)

1995 The Great Hanshin-Awaji Earthquake
(M.7.3 killed 6435, missing 2)

2014 Typhoon no. 11
(no casualties but 20 ha. collapses of hills)

Sharing lessons learnt from the past for the future
Discuss future DRR together in Hyogo