

## 3-2. Database on Disaster Risk Reduction

### 3-2-1. Latest Disaster Information

Once a disaster occurs, many DRR related organizations in and outside the affected country such as media, governments, international organizations, research institutions and civil societies start disseminating information about damage situations, relief and so on. Usually such information is issued separately and thus it has been difficult to collect necessary information from separate information sources at emergency.

ADRC has been sharing and updating latest disaster information of its member countries and major disaster information of the world including overview of the disaster (date of occurrence, area and outline) and damage situations, relevant links (reports, articles, map, relief, information from partners, imagery data and so on).

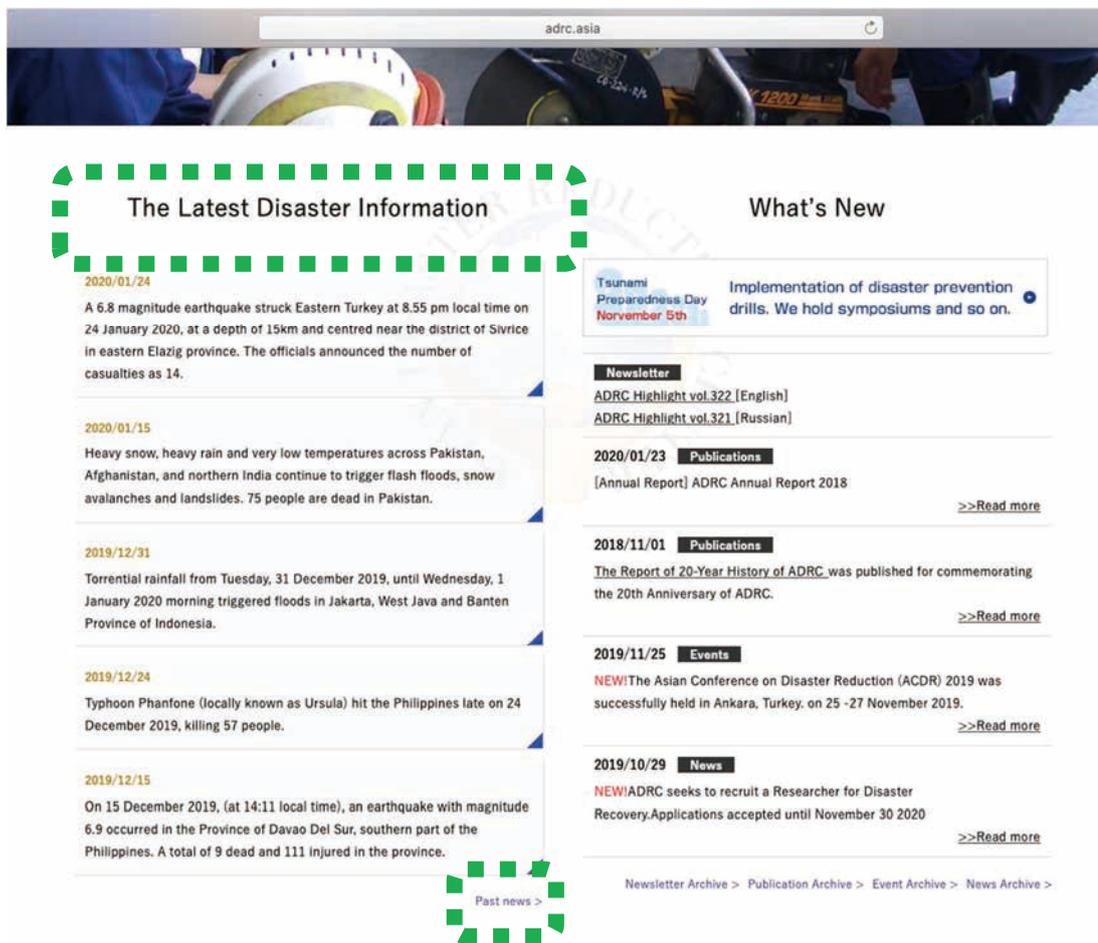


Fig. 3-2-1-1 Top Page of ADRC Website

69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126  
 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151  
 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177  
 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202  
 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228

From record No.21 to record No.30 out of 2271 records.

Fig. 3-2-1-2 Disaster Information page

Such latest disaster information is posted on top page of the ADRC’s website as well as on Disaster Information page, linking to further detailed information (Fig. 3-2-1-1~ Fig. 3-2-1-3).

This section takes up a heavy rain, flood and landslide event occurred in Japan in August 2019 to show the structure of providing disaster information on the ADRC website (Fig. 3-2-1-1~Fig. 3-2-1-6).

Disasters that have occurred in Asia and the world are posted on the top page as the Latest Disaster Information (Fig. 3-2-1-1), as well as on the (Latest) Disaster Information page (Fig. 3-2-1-2) after some time passes. Then you can click a disaster you are interested in, and it takes you to Details of Disaster Information (Fig. 3-2-1-3). In upper part of the page, there are links to GLIDE number (Fig. 3-2-1-4) of the said disaster (FL-2019-000097-JPN) and Emergency Observation of Sentinel Asia. Then situation reports by relevant organizations are placed in the middle part. On the bottom part, there is a link to the Country Information which contains the information on trends of natural disasters, disaster management systems of member countries (Fig. 3-2-1-5). This information is updated accordingly with the original links, which would

facilitate users' information collection.

Japan : Heavy Rain, Flood, Landslide : 2019/08/28

GLIDE: [FL-2019-000097-JPN](#)

Satellite Images (Sentinel Asia): [ERJPYU000001](#)

Duration	2019/08/28
Country or District	Japan
Name	Heavy Rain, Flood, Landslide
Outline	Torrential rain hit southwestern Japan on 28 August 2019, prompting local and prefectural governments to instruct hundreds of thousands of people to evacuate. At least two people were dead.

Summary		
Human Impact	Physical Impact	Others
<a href="#">Cabinet Office 2019/09/04</a>		
Dead: 4 Missing: 0 Seriously injured: 1 Slightly injured: 1 People in evacuation center: 265	Totally damaged houses: 3 Halfly damaged houses: 2 Partially damaged houses: 11 Houses inundated above floor level: 1,396 Houses inundated below floor level: 2,396 Damaged nonresidential building: 8	
<a href="#">Cabinet Office 2019/09/03</a>		
Dead: 4 Missing: 0 Seriously injured: 1 Slightly injured: 1 People in evacuation center: 300	Totally damaged houses: 1 Halfly damaged houses: 2 Partially damaged houses: 7 Houses inundated above floor level: 947 Houses inundated below floor level: 1,379 Damaged nonresidential building: 5	

Fig. 3-2-1-3 Details on the disaster occurred in Japan

The screenshot shows the GLIDE number website interface. At the top, there is a navigation bar with links for Home, Preferences, Login, Register, Help, and Contact us. Below this, the 'GLIDE Record' section displays the following information:

- Event: **FL Flood**
- Number: **2019-000097**
- Country: **JPN Japan**
- Location:
- Date (YMD): **2019-8-28**
- Time:
- Duration:
- Magnitude:
- Information Source:
- Comments: Torrential rain hit southwestern Japan on 28 August 2019, prompting local and prefectural governments to instruct hundreds of thousands of people to evacuat.

Below the text is a map of Japan with a red pin indicating the location in Kyushu. The map includes labels for various cities and regions in Japanese. To the right of the map, there are sections for 'Useful Links' (Back to Search results, New Search, Statistics, Charts, Tabular Reports) and 'Related Records'.

Fig. 3-2-1-4 Link to GLIDE



Japan

### General Information



Formal Name: Japan  
Japan is an island country located in the western Pacific Ocean. Total land area is about 378,000 square kilometers. More than 70 percent of land surface is mountainous. As it is situated along the circum-Pacific volcanic belt, Japan has several volcanic regions and frequently affected by earthquakes and Tsunami. A major feature of Japan's climate is the clear-cut temperature changes between the four seasons. In spite of its rather small area, the climate differs in regions from a subarctic climate to a subtropical climate. The side of the country which faces the Sea of Japan has a climate with much snow in winter by seasonal winds from the Siberia. Most of the areas have damp rainy season from May to July by the seasonal winds from the Pacific Ocean. From July to September, Japan frequently suffers from Typhoon. The capital is Tokyo. Total population is about 127.77 million.

### Overview of Disasters

Japan is affected by Typhoon mostly every year and Volcanic disasters triggered by eruption and volcanic earthquake. Japan is earthquake prone area due to the geological formation with plate boundaries of the Pacific plate, the Philippine Sea plate, the Eurasian plate, and the North American plate.

Fig. 3-2-1-5 Information on DRR of Member Country

Since FY2007, the website has been linked to JAXA's Disaster Management Support System, giving further value added information, namely satellite imageries of the affected areas (Fig. 3-2-1-6). As of 29 February 2020, a total of 2,372 disasters have been registered in the database.

2019-08-28  
**Northern Kyushu flood due to heavy rain once every decade, in August**

Emergency Obs. Request Information

Disaster Situation

Satellite Image

Before Disaster

Date	Satellite	Resolution
2019-08-27	ALOS-2 PALSAR-2	P131F660, A, 35.4, 27 Aug, 2019
2019-08-27	ALOS-2 PALSAR-2	P131F660, A, 35.4, 27 Aug, 2019
2019-08-28	ALOS-2 PALSAR-2	P131F660, A, 35.4, 4 June, 2019
2019-08-28	ALOS-2 PALSAR-2	P131F660, A, 35.4, 4 June, 2019
2019-08-28	ALOS-2 PALSAR-2	P131F700, A, 48, 9 June, 2019
2017-12-07	ALOS-2 PALSAR-2	P131F710, A, 48, 7 Dec, 2017
2015-03-18	ALOS-2 PALSAR-2	P22F2960, D, 44.7, 18 Mar, 2015
2015-03-18	ALOS-2 PALSAR-2	P22F2960, D, 44.7, 18 Mar, 2015

After Disaster

Date	Satellite	Resolution
2019-08-28	ALOS-2 PALSAR-2	P131F660, A, 35.4, 28 Aug, 2019
2019-08-28	ALOS-2 PALSAR-2	P131F660, A, 35.4, 28 Aug, 2019
2019-08-28	ALOS-2 PALSAR-2	P131F660, A, 35.4, 28 Aug, 2019

Fig. 3-2-1-6 Emergency observation by Sentinel Asia

### 3-2-2. Asian Disaster Reduction Center Newsletter: ADRC Highlights

ADRC has been using Internet and e-mail to share information with its counterparts in the member countries, and other relevant parties. As one of its important tools for information dissemination, ADRC has been issuing the newsletter “ADRC Highlights” since 1 June 1999. It had been issued twice a month until FY 2007, and has been issued once a month since the renewal of its design in FY 2008.



Fig. 3-2-2-1 ADRC Highlights  
(December 2019: English edition, Japanese edition, Russian edition)

The newsletter is made available on the website. Its text version is also e-mailed in English, Russian and Japanese to ADRC counterparts and former visiting researchers, former GLIDE visiting researchers, participants in the past ADRC annual meetings, visitors to ADRC, trainees in JICA's training courses which ADRC were involved in, and participants in international conferences which ADRC took part in. Also ADRC registers e-mail addresses of those who wish to subscribe the newsletter upon the receipt of request e-mail. The numbers of subscribers in English, Russian and Japanese, are 2,158, 203 and 898 respectively as of 1 March 2020.

The contents include articles on the latest ADRC activities, reports on participation in international conferences, and other events which ADRC staff members attended and gave presentations in, as well as reports by ADRC Visiting Researchers from member countries and interns.

Table 3-2-2-1 Headlines from ADRC Highlights (FY2019)

Vol.	Main Articles
313	<ul style="list-style-type: none"> <li>✓ Meeting of Three Education and Training Institutes on Disaster Management</li> <li>✓ Notice of the ADRC website renewal</li> </ul>
314	<ul style="list-style-type: none"> <li>✓ Exchange of Opinions with the Legislative Counseling Office of the National Assembly of the Republic of Korea (2019 April 24)</li> <li>✓ ADRC Staff Profile – KOBORI Kazuyuki, Senior Administrative Manager</li> </ul>
315	<ul style="list-style-type: none"> <li>✓ Global Platform 2019</li> </ul>
316	<ul style="list-style-type: none"> <li>✓ The 14th Meeting of the Typhoon Committee Working Group on Disaster Risk Reduction</li> <li>✓ The 6th Earthquake Technology Expo in OSAKA</li> </ul>
317	<ul style="list-style-type: none"> <li>✓ 9th Annual UN-SPIDER Regional Support Offices (RSO) Coordination Meeting</li> <li>✓ Public forum "Trilateral Disaster Risk Reduction and Relief Cooperation Among China-Japan-Korea"</li> </ul>
318	<ul style="list-style-type: none"> <li>✓ APEC-related Events</li> <li>✓ Report from ADRC Intern: Intern, Ms. TAKAI Tamaki</li> </ul>
319	<ul style="list-style-type: none"> <li>✓ Study Tour on School and Community-based Disaster Risk Management for UNICEF Kyrgyzstan</li> <li>✓ Expert Group Meeting to Combat Sand and Dust Storm, UNESCAP</li> <li>✓ ADRC Visiting Researcher Report: Mr. Ozgur Tuna Ozmen (Turkey)</li> </ul>
320	<ul style="list-style-type: none"> <li>✓ JICA Knowledge Co-Creation Program: "School-based Disaster Education in Turkey"</li> <li>✓ The UN International Conference on Space-based Technology for Disaster Risk Reduction and 10 Years Commemoration of the UN-SPIDER Beijing Office</li> <li>✓ Announcement: Asian Conference on Disaster Reduction 2019</li> </ul>
321	<ul style="list-style-type: none"> <li>✓ Asian Conference on Disaster Reduction 2019</li> <li>✓ JICA Training "Comprehensive Disaster Risk Reduction for the African Region"</li> </ul>
322	<ul style="list-style-type: none"> <li>✓ HAPPY NEW YEAR 2020: HAMADA Masanori, Chairman, ADRC</li> <li>✓ JICA Training Course: Promotion of Mainstreaming Disaster Risk Reduction</li> <li>✓ 26th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-26)</li> </ul>
323	<ul style="list-style-type: none"> <li>✓ ADRC Visiting Researcher Report - Mr. Beda Nidhi Khanal (Nepal) - Mr. Nima Tshering (Bhutan)</li> <li>✓ Report from ADRC Intern: Mr. MATSUSHITA Takuma</li> </ul>
324	<ul style="list-style-type: none"> <li>✓ JICA Knowledge Co-Creation Program: Second Batch "School-based Disaster Education in Turkey"</li> <li>✓ APEC-related Meeting (Malaysia)</li> <li>✓ ADRC Visiting Researcher Report: Mr. Ranjith ALAHAKOON (Sri Lanka)</li> </ul>