

Table of Contents

1. Asian Disaster Reduction Center.....	3
1.1 Key Activities.....	3
1.2 Composition.....	3
1.2.1 Member and Advisor Countries.....	4
1.2.2 Partner Organizations.....	5
2. Highlights of FY2024.....	9
2.1 Activities in Figures.....	9
2.2 Asian Conference on Disaster Reduction 2024.....	9
2.2.1 Opening Session.....	10
2.2.2 Roundtable Session.....	11
2.2.3 Session 1: Enhancing Flood and Flash Flood Risk Information.....	12
2.2.4 Session 2: Improving Flood Countermeasures Based on Analyses of Future Risk for Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA).....	13
2.2.5 Special Session on Disasters and Disaster Management in Viet Nam.....	14
2.2.6 Closing Session.....	16
2.3 Report on the 2025 Myanmar Earthquake.....	17
2.3.1 Issuance of GLIDE Number.....	17
2.3.2 Initial Assessments.....	17
2.3.3 Satellite Imageries.....	18
2.4 Development of AADMER Work Programme 2026–2030.....	18
2.4.1 Background.....	19
2.4.2 Priority Programmes.....	19
2.4.3 Timeline.....	20
2.5 20th Commemoration of the Indian Ocean Tsunami.....	20
2.5.1 International Seminar on Tsunami Disaster Mitigation.....	20
2.5.2 Field Visits.....	21
2.5.3 Interviews.....	23
2.5.4 International Seminar on Tsunami DRR-related Policies.....	23
3. Information Sharing on DRR.....	27
3.1 Information Collection.....	27
3.1.1 Country Reports on DRR.....	27
3.1.2 Latest Disaster Information (FY2024).....	28
3.1.3 Natural Disaster Databook 2023.....	30

3.2 Information Dissemination.....	32
3.2.1 ADRC Highlights	32
3.2.2 Data Sharing through GLIDE Number System	32
3.2.3 Data Sharing through Sentinel Asia.....	33
4. Human Resource Development.....	37
4.1 Visiting Researcher (VR) Program.....	37
4.1.1 Activities During the Programme	37
4.1.2 Networking of Visiting Researchers	38
4.2 JICA Knowledge Co-creation Program	40
4.2.1 Comprehensive DRR for Central and South America	40
4.2.2 Comprehensive DRR for Central Asia and Caucasus	41
4.2.3 Malaysia “LEP 2.0 Enhancement of the Disaster Risk Management Capacity of the National Disaster Management Agency (NADMA)” Pre-Disaster Investment and Risk Understanding	41
4.2.4 Promotion of Mainstreaming Disaster Risk Reduction toward a More Resilient Society	41
4.2.5 Comprehensive DRR Considering Climate Change for the African Region.....	42
4.2.6 Comprehensive Disaster Risk Reduction (Toward a Resilient Society)	42
4.3 Short-Term Programmes	42
4.3.1 BMKG Training in Japan.....	42
4.3.2 AHA Centre ACE-LEDMP: Study Visit to Japan.....	43
4.3.3 Crash course on implementing DRR in Post-event scenario	44
4.3.4 Internships at ADRC	44
5. Cooperation and Partnerships	47
5.1 Research Cooperation	47
5.1.1 Advanced Studies on Climate Change Projection	47
5.1.2 Joint Development of Citizen Empowerment Program for DRR in Asia	49
5.1.3 Mt. Fuji Disaster Drill Project.....	50
5.1.4 SATREPS Earthquake Early Warning and Response System Feasibility Study and Preparatory Period in FY2024	51
5.2 International Engagements and Partnerships.....	52
5.2.1 APEC-EPWG	52
5.2.2 APRSAF/Sentinel Asia.....	55
5.2.3 UNDRR/APP-DRR	57
5.2.4 ESCAP/WMO: Typhoon Committee	58
5.2.5 ASEAN	60
5.2.6 Other International Engagements.....	62

6. International Recovery Platform67

6.1 International Recovery Forum 2025	67
6.2 The Development of Recovery Readiness Assessment Framework	68
6.3 Understanding Risk Global Forum 2024	69
6.4 Asia-Pacific Ministerial Conference on Disaster Risk Reduction	70
6.5 G20 Disaster Risk Reduction Working Group Contributions	70
6.6 Knowledge Management and Global Resource Hub	70
6.7 Bosai Kokutai and Sendai Bosai Mirai Forum	71

7. Natural Disaster Databook 2024.....75

7.1 Natural Disaster Data	77
7.1.1 Global Disaster Data	77
7.1.2 Asian Disaster Data	82
7.2 Climate-Related Disasters	87
7.2.1 Global Trend in Climate-related Disasters	87
7.2.2 Asian Trend in Climate-related Disasters	89

Annexes

Annex 1: History of Establishment of ADRC	93
Annex 2: Overview of International Recovery Platform.....	95
Annex 3: Notes on Sources of Data for the Natural Disaster Databook	96

List of Tables

Table 1.1 Timeline of the Expansion of Member and Advisor Countries	4
Table 1.2 Counterpart Agencies.....	4
Table 3.1 List of reports from ADRC member countries	27
Table 4.1 Cumulative total of VRs as of March 2025	37
Table 4.2 JICA KCCP implemented by ADRC in FY2024	40
Table 7.1 Trend of Natural Disasters (Global)	75
Table 7.2 Trend of Natural Disasters (Asia).....	76
Table 7.3 Trend of Climate-Related Disasters (Global)	76
Table 7.4 Trend of Climate-Related Disasters (Asia).....	76

List of Figures

Figure 1.1 ADRC member countries as shown on the map.....	3
Figure 2.1 Highlights of ADRC Activities in FY2024	9
Figure 2.2 ACDR2024 Group Photo.....	10
Figure 2.3 Government officials and representative who delivered statements at the Roundtable Session	11
Figure 2.4 Speakers of Thematic Session 1	12
Figure 2.5 Speakers of Thematic Session 2	13
Figure 2.6 Speakers of the special session on disasters and disaster management in Viet Nam	14
Figure 2.7 Damage assessment collected by ADRC as of 7 May 2025	17
Figure 2.8 InSAR (Interferometric SAR) analysis of ALOS-2 satellite imagery.....	18
Figure 2.9 Priority Programmes of AWP 2026–2030	19
Figure 2.10 Speakers of the International Seminar on Tsunami Disaster Mitigation	20
Figure 2.11 New houses built near the coast in Banda Aceh	21
Figure 2.12 Boats of diverse sizes in Banda Aceh indicating a flourishing fishing industry.....	21
Figure 2.13 Tsunami simulation screen (left) and “Bridge of Peace” following tsunami recovery (right).....	22
Figure 2.14 Real-time earthquake observatory (top left), tsunami modelling facility (bottom left), and seismic shaking table facility (right).....	22

Figure 2.15 Interview at BAPPEDA Aceh (left) and interview at Aceh Tsunami Museum (right).....	23
Figure 2.16 Participants of the International Seminar at BAPPEDA	23
Figure 3.1 Screenshot of ADRC Homepage with latest disaster information.....	29
Figure 3.2 Cover photo of the Natural Disaster Databook 2023	30
Figure 3.3 Global economic losses by disaster type (in billion) 1993–2022 average vs 2023.....	31
Figure 3.4 ADRC Highlights December 2024 Issue in Japanese, English, and Russian edition	32
Figure 3.5 Screenshot of GLIDE Homepage	33
Figure 3.6 Emergency observation requests record 2007–2024	33
Figure 3.7 Sentinel Asia Network	34
Figure 4.1 ADRC VRs for FY2024.....	38
Figure 4.2 Mr Kanatbek (second from left) during ADRC and JAXA's visit.....	39
Figure 4.3 Ms Thai Minh Huong (VR in FY2022) and Ms Vu Doung Thuy (VR in FY2023) at ACDR2024 in Hanoi.....	39
Figure 4.4 Study visit to the Nigawa Landslide Museum (catchment well) in Hyogo Prefecture	40
Figure 4.5 Participants observing flood control measures along Joganji River	41
Figure 4.6 Participants visited Arakawa-Karyu River Office.....	41
Figure 4.7 Participants during one of the lectures at JICA Kansai	41
Figure 4.8 Participants making hazard maps through town watching exercise	42
Figure 4.9 Participants sharing ideas on their challenges in DRR	42
Figure 4.10 Tour at TOA Knowledge Square (left), Lecture by Dr KODERA Yuki, Meteorological Research Institute (right)	43
Figure 4.11 ACE-LEDMP Participants at the Cabinet Office Japan	43
Figure 4.12 Mr Sanjaya Bhatia of UNDRR/GETI during his lecture at ADRC	44
Figure 4.13 Mr Tatul Atalyan during his internship at ADRC.....	44
Figure 5.1 Presentation by Mr Sem Savuth, Department of Climate Change, Cambodia	47
Figure 5.2 Dato' Zaki Amin presenting the projected climate change in the regions of Malaysia	49
Figure 5.3 Community evacuation drills utilizing WhatsApp-based ICT tool in Yogyakarta, Indonesia	50
Figure 5.4 Utilizing WhatsApp or LINE systems with geoBingAn in Mt. Fuji Disaster Drill	50
Figure 5.5 Clockwise from upper left: opening, technical session, visit to BPBD, and visit residential area in Jakarta	52
Figure 5.6 17th Senior Disaster Management Officials Forum in Peru	53
Figure 5.7 Group of the participants of EPWG Workshop in Viet Nam	54
Figure 5.8 Participants of APEC Viet Nam Online Workshop	54
Figure 5.9 Dr IKEDA Makoto making a presentation at the 9th Joint Project Team Meeting	55
Figure 5.10 Group Photo of the 24th Steering Committee Meeting of Sentinel Asia	56
Figure 5.11 Sentinel Asia Workshop in Kyrgyz Republic, October 2024	56
Figure 5.12 Sentinel Asia Workshop in Fiji, January 2025	57
Figure 5.13 Dr Gerald Potutan of ADRC made a presentation on QZSS DC Report	57
Figure 5.14 ADRC served as panellist (left), ADRC Exhibit (right) during the APMCDRR in Manila	58
Figure 5.15 ADRC presented the Member Report of Japan at the 19th WGDRR Meeting	59
Figure 5.16 Attachment Training of Typhoon Committee at RSMC Tokyo	60
Figure 5.17 ADRC Executive Director Sasahara at 7th ACDM + Japan Meeting (left), meeting the NDMC Brunei (right).....	61
Figure 5.18 Dr Ikeda with Prof. Yamaji at the panel discussion	61
Figure 5.19 ADRC Executive Director SASAHARA Akio at the 8th ACDM + Japan Meeting.....	62
Figure 5.20 Opening Remarks by Mr Oliver Chinganya of the UN Economic Commission for Africa (ECA).....	62
Figure 5.21 Poster on the Denizli AFAD Seminar	63
Figure 5.22 Bosai Kokutai 2024 Flyer.....	63
Figure 5.23 ADRC Booth at the World Bosai Expo 2025	64
Figure 6.1 Panellists of Session 1: Learning from Japan's Recovery	67
Figure 6.2 Panellists of Session 2: International Perspectives on Build Back Better	68
Figure 6.3 Asian Regional Consultation	69
Figure 6.4 Panellists of IRP Session at Understanding Risk 2024.....	69
Figure 6.5 Resilient Recovery Dialogue at APMCDRR 2024	70
Figure 6.6 IRP Website as repository of knowledge on recovery.....	70
Figure 6.7 IRP knowledge products.....	71
Figure 7.1 Global trend of natural disaster occurrence: 1900–2024	77
Figure 7.2 Number of occurrences by disaster type (globally): 30-Year Average vs 2024	78
Figure 7.3 Number of people killed by disaster type (globally): 30-Year Average vs 2024.....	79
Figure 7.4 Number of people affected by disaster type (globally): 30-Year Average vs 2024	80
Figure 7.5 Economic losses by disaster type (globally): 30-Year Average vs 2024	81

Figure 7.6 Asian trend of natural disaster occurrence: 1900–2024	82
Figure 7.7 Number of occurrences by disaster type in Asia: 30-Year Average vs 2024	83
Figure 7.8 Top ten countries in Asia with the highest number of disaster occurrence in 2024.....	84
Figure 7.9 Number of people killed by disaster type in Asia: 30-Year Average vs 2024	84
Figure 7.10 Number of people affected by disaster type in Asia: 30-Year Average vs 2024	85
Figure 7.11 Economic losses by disaster type in Asia: 30-Year Average vs 2024	86
Figure 7.12 Global occurrence of climate-related disasters: 30-Year Average vs 2024	87
Figure 7.13 People affected by climate-related disasters (globally): 30-Year Average vs 2024	88
Figure 7.14 Global economic losses from climate-related disasters: 30-Year Average vs 2024	88
Figure 7.15 Occurrence of climate-related disasters in Asia: 30-Year Average vs 2024	89
Figure 7.16 People affected by climate-related disasters in Asia: 30-Year Average vs 2024	90
Figure 7.17 Economic losses from climate-related disasters in Asia: 30-Year Average vs 2024	90