



# Overview of Emergency Observation in Sentinel Asia

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2013/11/27

1st Joint Project Team Meeting for Sentinel  
Asia Step-3 in Bangkok, Thailand

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**Disaster Information**

When natural disasters occur, such as floods, droughts and earthquakes, the Center releases information on the phenomena that trigger the disasters and the damages. Related links are also available.

[Main Contents]

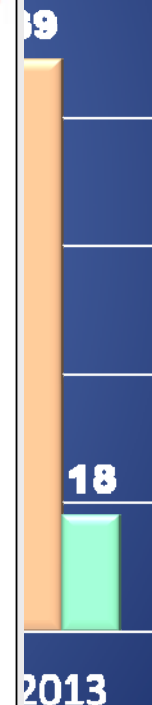
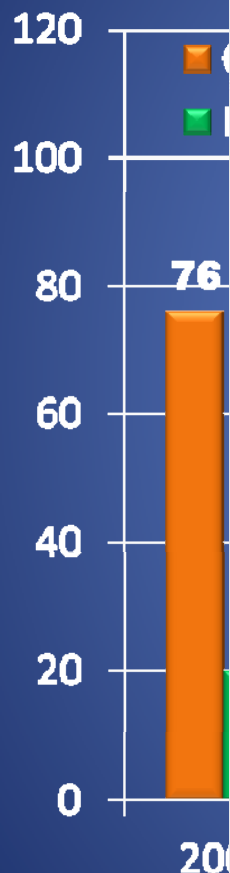
- Disaster name
- Country/ District
- Date/Period
- Headline
- GLIDE Number
- Related Links (Report/Articles/Map)

**The Latest Disaster Information**

- [Saudi Arabia : Flood : 2013/11/17](#)
- [Viet Nam : Flood : 2013/11/14](#)
- [Somalia : Cyclone : 2013/11/10](#)
- [China : Typhoon : 2013/11/11](#)
- [Viet Nam : Typhoon : 2013/11/10](#)
- [Philippines : Typhoon : 2013/11/08](#)
- [India : Flood : 2013/10/25](#)
- [Japan : Typhoon : 2013/10/16](#)
- [Philippines : Earthquake : 2013/10/15](#)
- [Viet Nam : Typhoon : 2013/10/15](#)

Go to Disaster Information Archive

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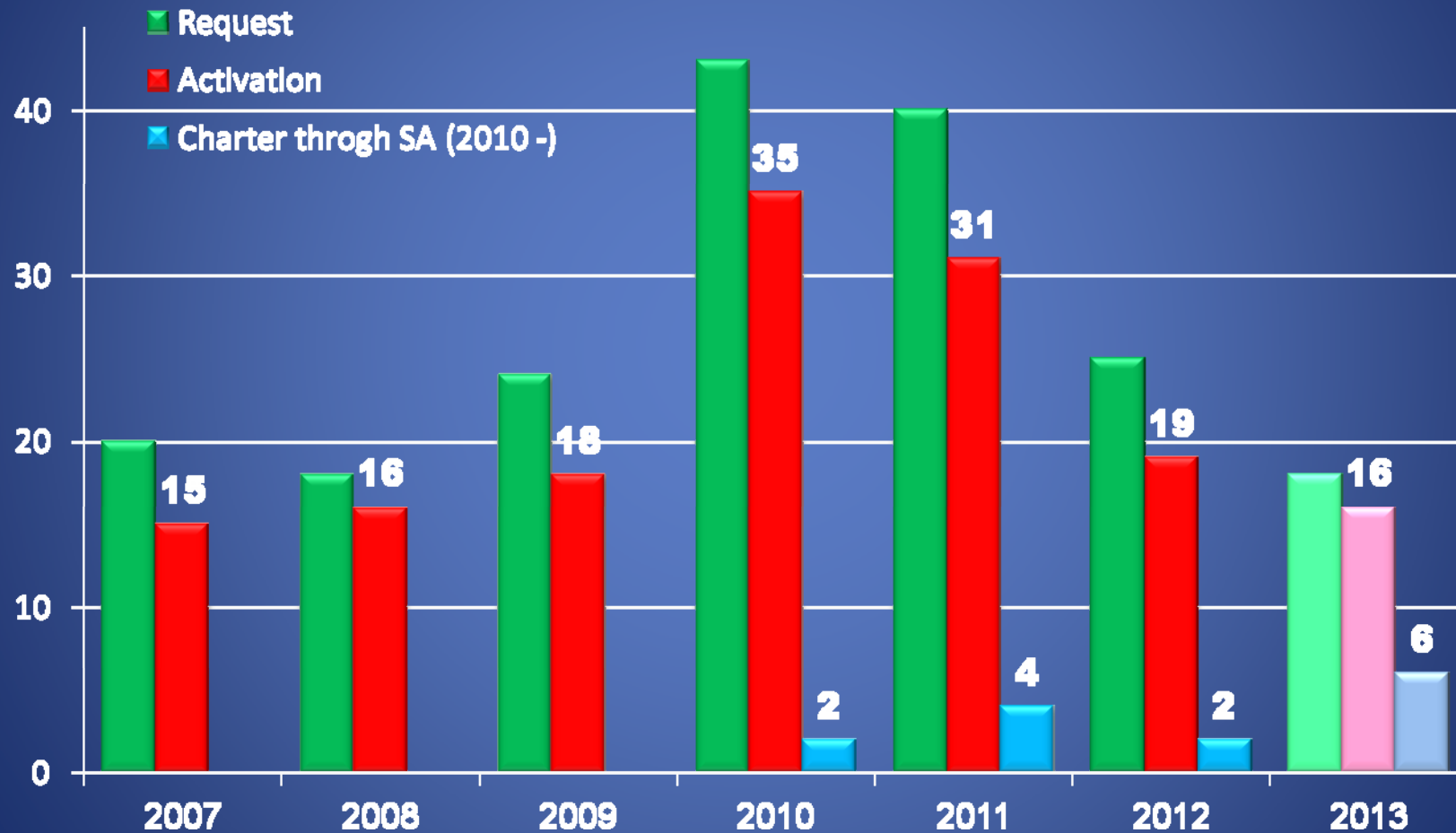
2013  
Notice :  
2013 ( until October)

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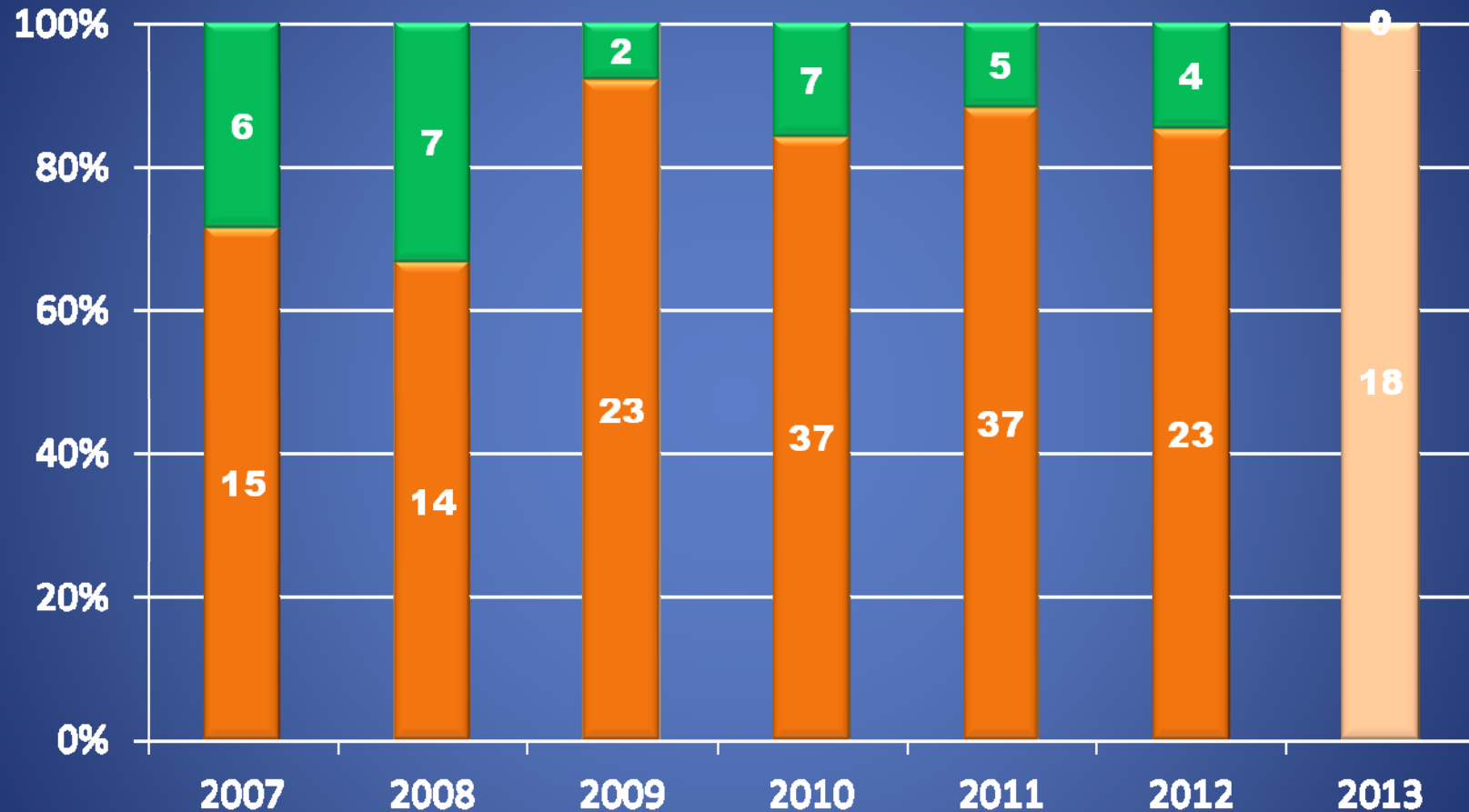


# Changes in the number of emergency observation 2007-2013



Notice :  
2013 ( until October)

# Changes in the Ratio of Requesters 2007-2013



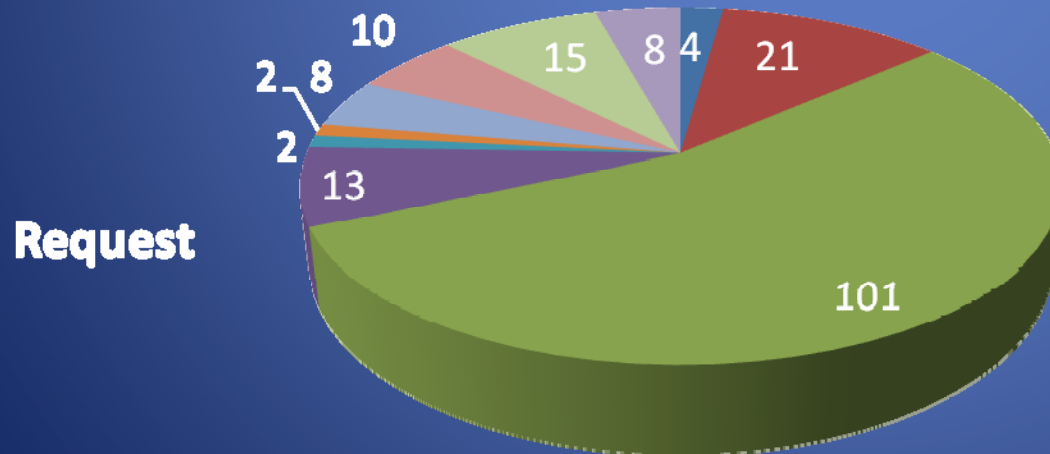
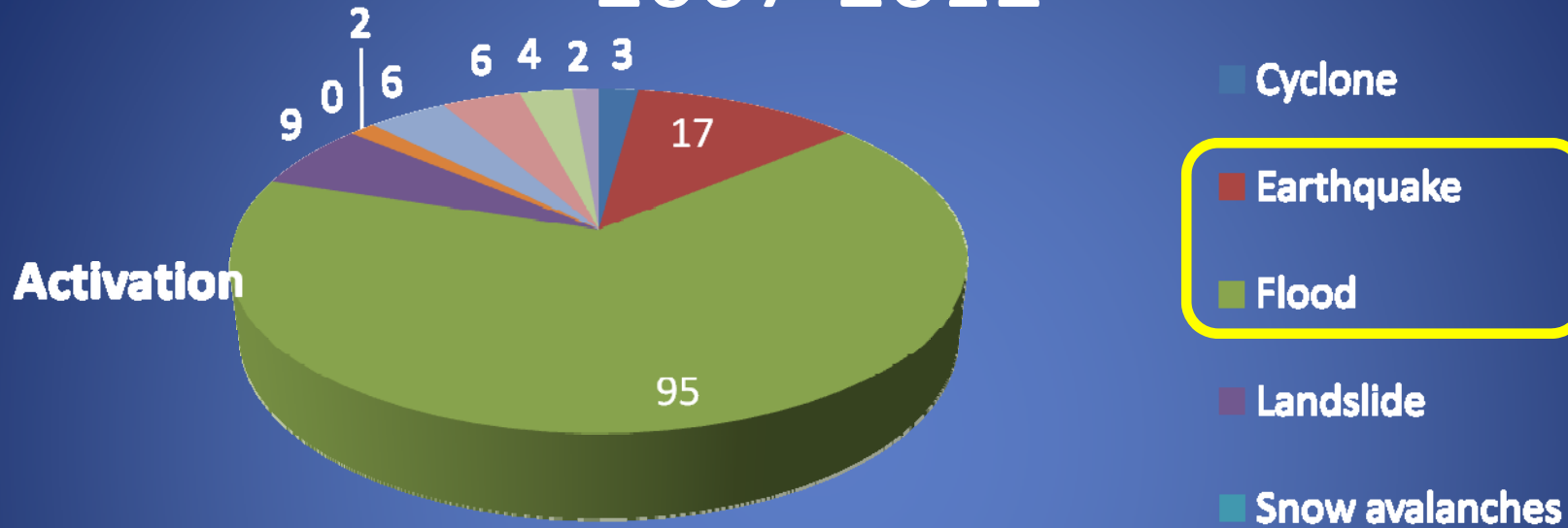
■ ADRC member  
■ JPT member

Include requesters belonging to both JPT and ADRC member

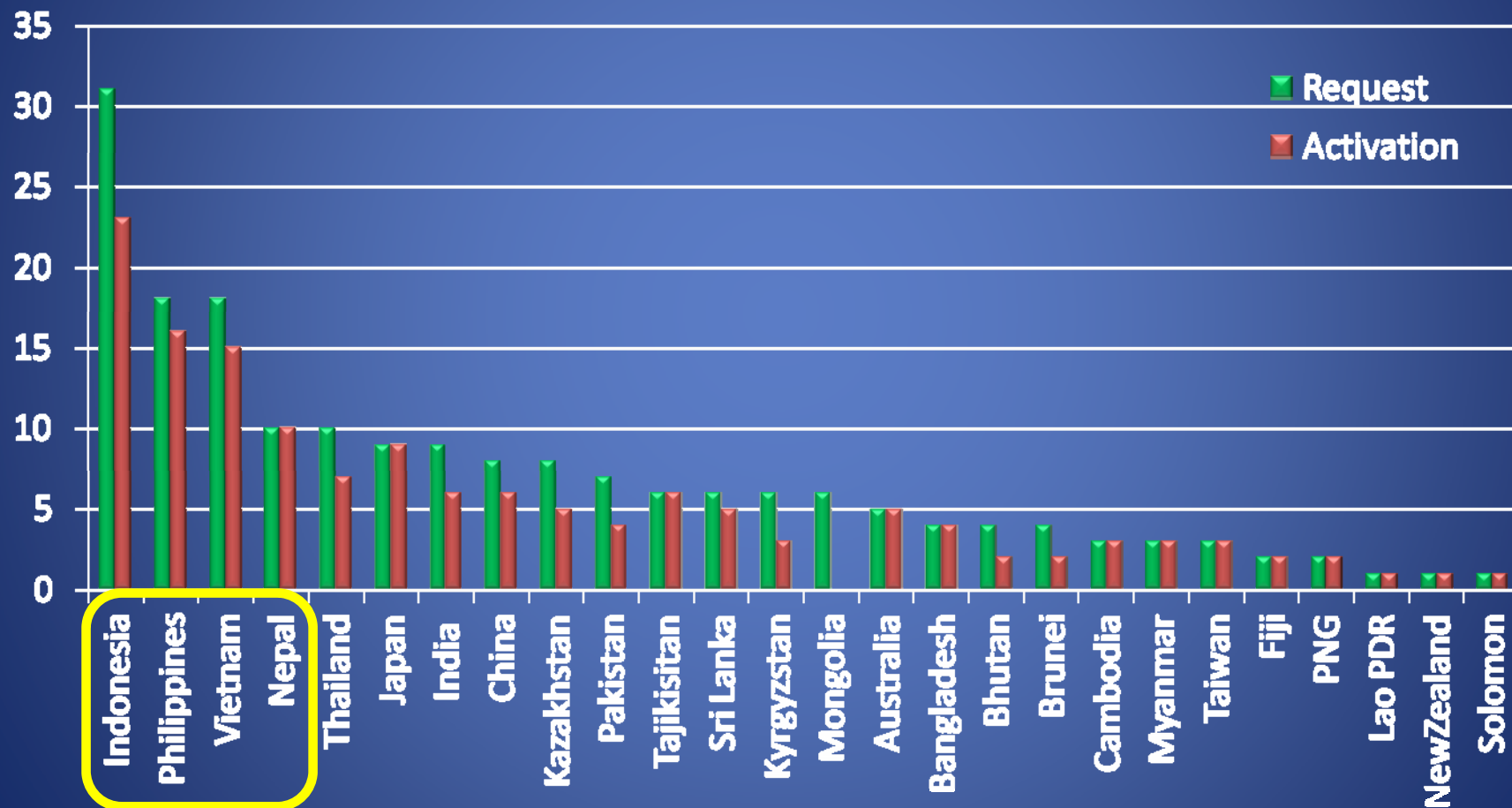
Notice :  
2013 ( until October)



# Breakdown by type of disaster 2007-2012



# The status of implementation of emergency observation for each country 2007-2012

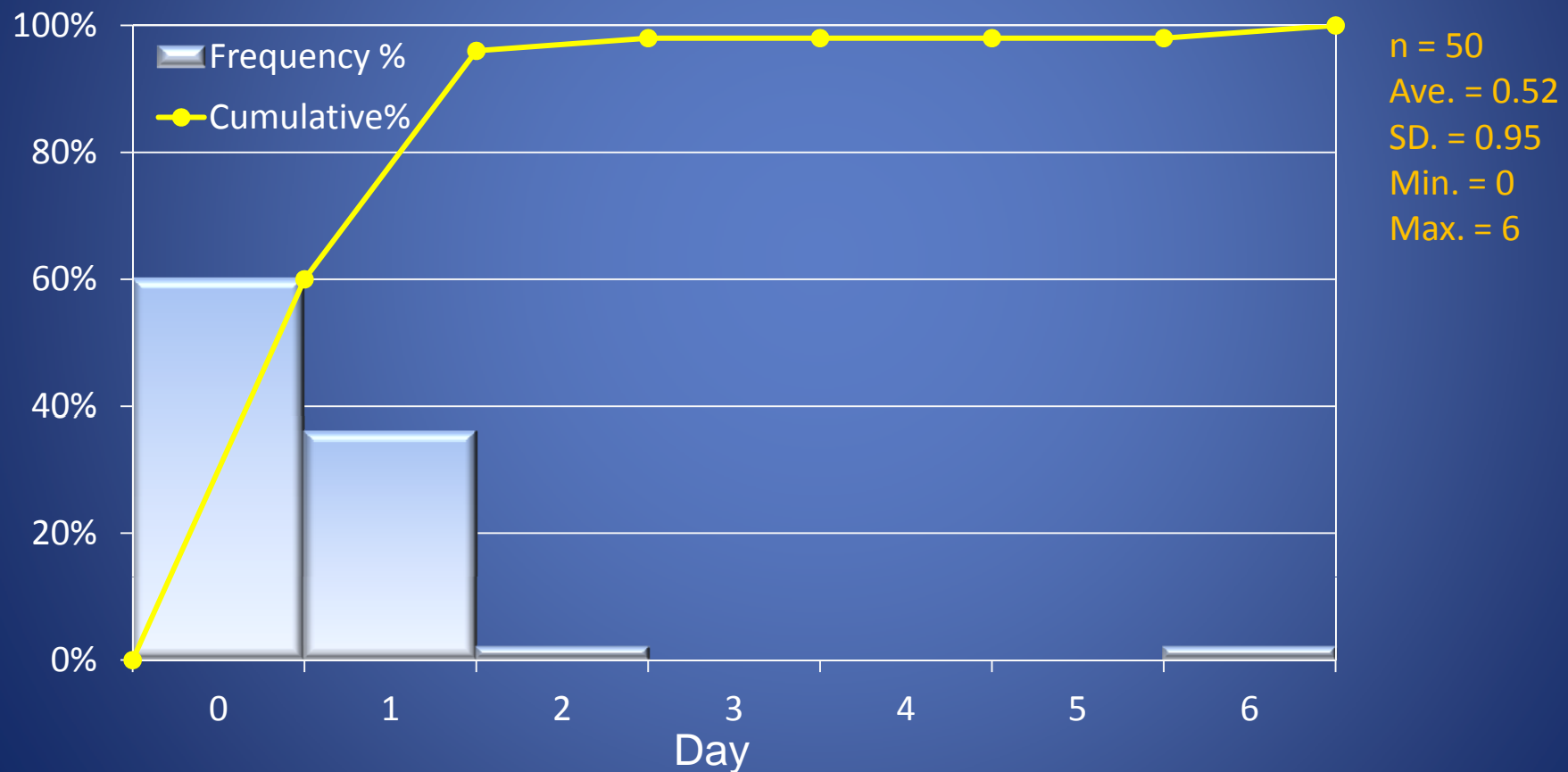


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# Analysis of Time from Request to Activation Jun.2011 – Aug.2013

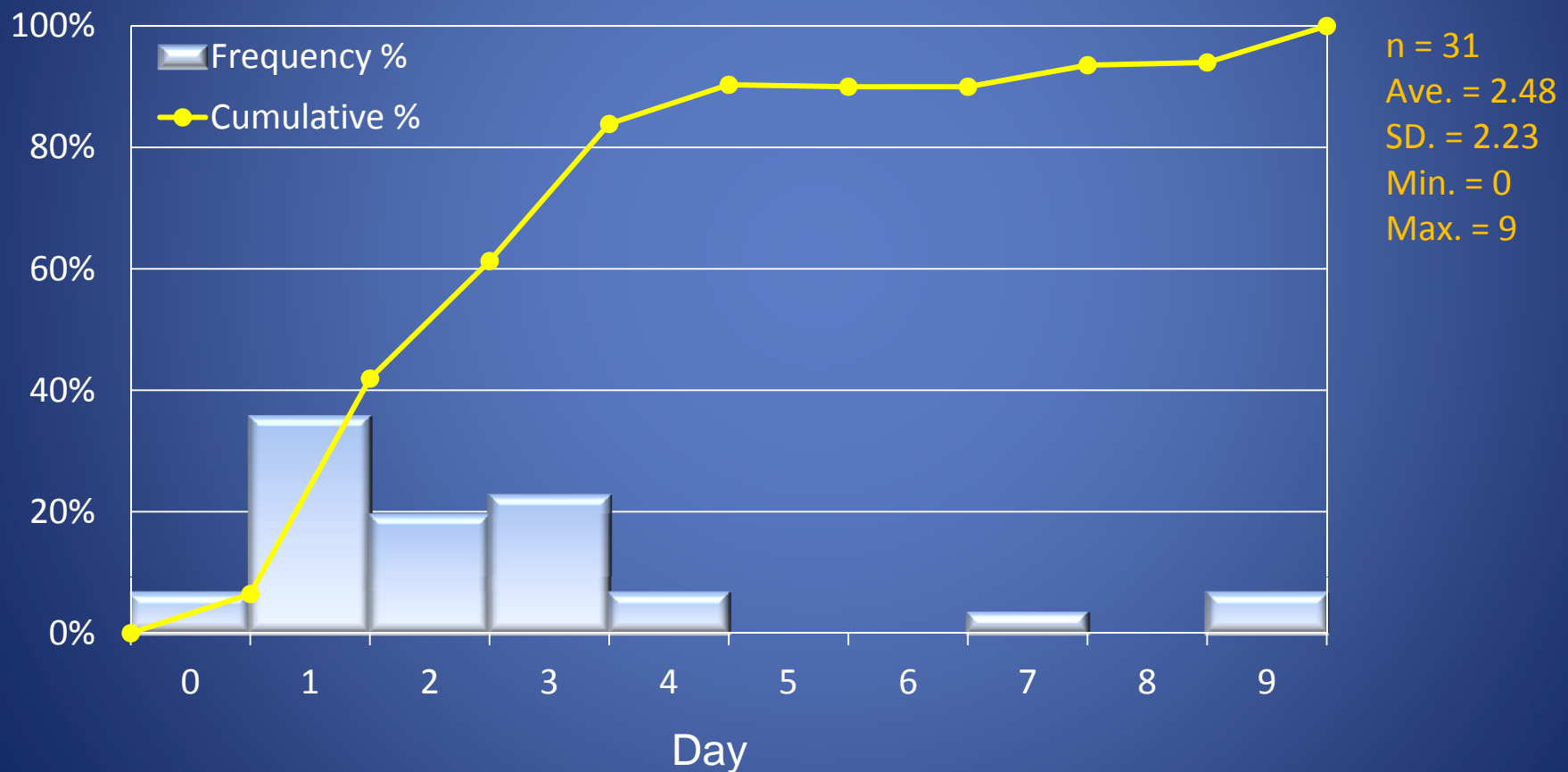


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# Analysis of Time from Request to Archive Delivery Jun.2011 – Aug.2013



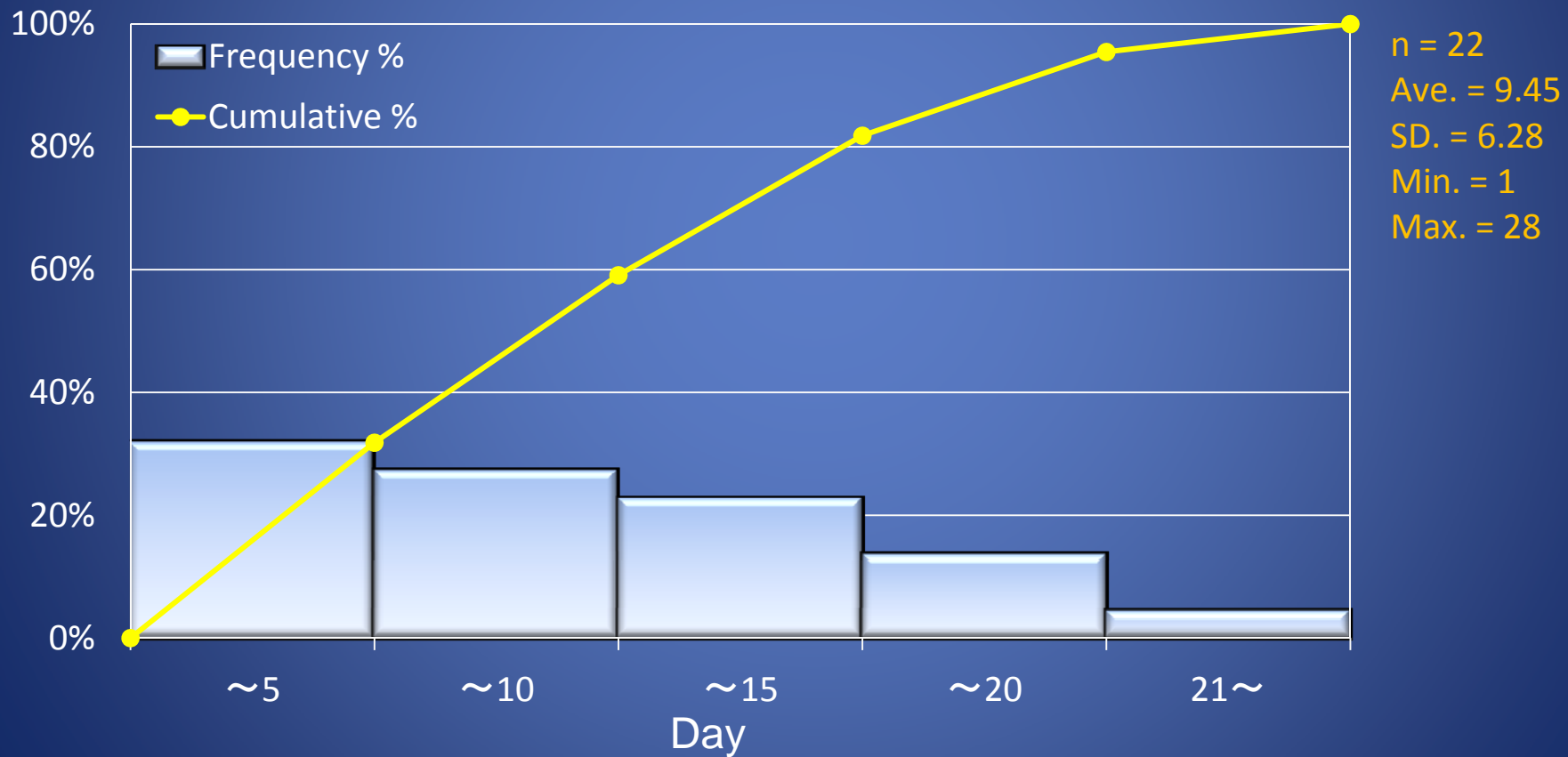
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# Analysis of Time from Request to Post Image Delivery Jun.2011 – Aug.2013

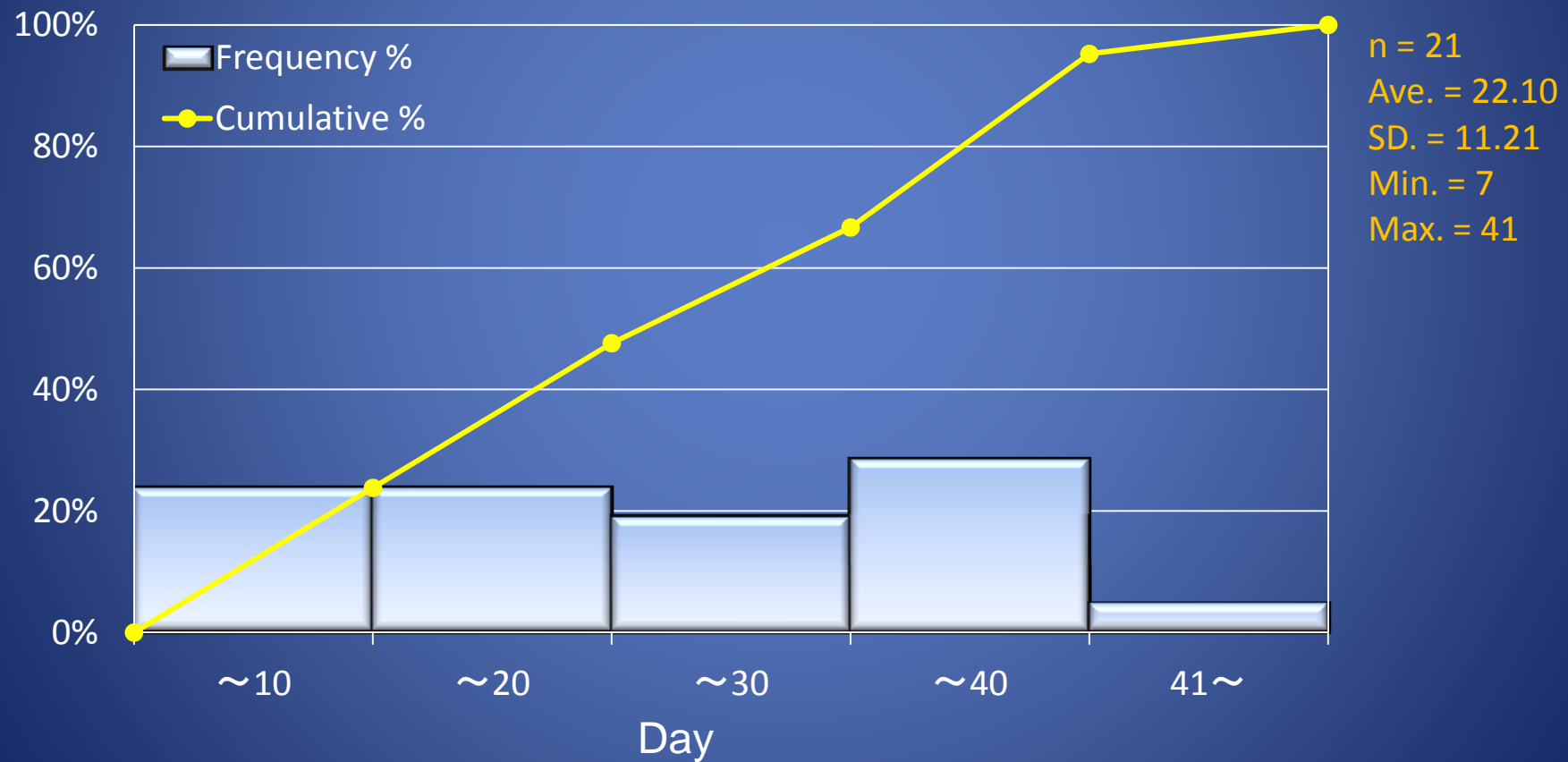


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# Analysis of Time from Request to Product Delivery Jun.2011 – Aug.2013



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# Emergency Observation in 2012



Country	Region	Type	Date	Implementation for Emergency						Requester	Analyzer
				JAXA (*Archive)	ISRO	KARI	GISTDA	NARL	Disaster Charter		
Fiji	Provinces of Ba and Nadroga	Flood	2012/1/22	○*				○		NDMO(FJ)	AIT
Papua New Guinea	mountainous Highlands region	Land slide	2012/1/24	○*						NDC(PNG)	
Philippines	Negros Oriental	Earthquake	2012/2/6	○*				○		PHIVOLCS	AIT
Bhutan	Lhuntse District	Wildfire	2012/2/19							MOHCA(BT)	
Kazakhstan	South Kazakhstan	Flood	2012/3/1	○*				○		NCSRT(KZ)	AIT
Kyrgyzstan	Kazarman	Flood	2012/3/27	○*			○	○		CAIAG (KG)	AIT
Thailand, Indonesia	Offshore western Sumatra	Earthquake	2012/4/11							GISTDA, BNPB	
Nepal	Kaski district (Seti River)	Flood	2012/5/5	○*	○					LMTC(NP), ICIMOD	AIT
Tajikistan	Kulob district	Flood	2012/5/11	○*	○					CESCD(TJ)	AIT
Kazakhstan	the border with China	Fire	2012/6/1							NCSRT(KZ)	
Indonesia	Gamalama volcano	Volcanic Eruption	2012/5/9							BPPT	
China	Xiangxi Tujia and Miao Autonomous Prefecture	Flood	2012/6/25	○*						the Chinese University of Hong Kong	
Japan	Ooita and Fukuoka Prefecture	Flood	2012/7/3	○*	○			○		JAXA	AIT, JPYU
China	Beijing	Flood	2012/7/21	○*				○		the Chinese University of Hong Kong	AIT, CUHK
Philippines	Metro Manila	Flood	2012/8/6	○*	○			○	○	NIGS, MO	AIT, LAPAN, Charter
Kazakhstan	south of Almaty city	Wildfire	2012/8/22	○*	○			○		NCSRT(KZ)	AIT
Indonesia	Central Sulawesi	Flash Flood	2012/8/25	○*				○		BPPT	AIT, BPPT
Vietnam	Provinces from Thanh Hoa to Ha Tinh	Flood	2012/9/7	○*						MONRE	
Indonesia	Simpang Hilir, Kayong Utara in West Kalimantan	Forest Fire	2012/9/14							LAPAN	
India	Assam	Flood	2012/9/23	○*			○	○		GHTU (IN)	AIT
Sri Lanka	South-western parts of the island	Cyclone								IWMI	
Indonesia	West Sulawesi	Flash Flood	2012/11/8	○*						LAPAN	
Philippines	North-east part of Mindanao	Cyclone	2012/12/4	○*	○	○			○	MO	AIT, Charter
Brunei	Brunei-Muara District	Flood	2012/12/4	○*						Survey Department of Brunei	AIT
Philippines	Central Philippines	Tropical Storm	2012/12/25	○*				○		MO	AIT

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# Emergency Observation in 2013



Country	Region	Type	Date	Implementation for Emergency						Requester	Analyzer	
				JAXA (*Archive)	ISRO	KARI	GISTDA	NARL	Disaster Charter			
Indonesia	Jakarta	Flood	2013/1/14	○*					○		LAPAN	AIT
Solomon Islands	Santa Cruz Islands	Earthquake, Tsunami	2013/2/6	○*							NDMO (SI)	
Indonesia	Manado City, North Sulawesi	Flood, Landslide	2013/2/17	○*	○						LAPAN	AIT
China	Southwestern Sichuan province	Earthquake	2013/4/20	○*	○						the Chinese University of Hong Kong	AIT
Nepal	Khalanga, Darchula district	Flood	2013/6/18	○*							NGIIP, Survey Department, NEPAL	
India	North India, Uttrakhand	Flood	2013/6/17	○*							Symbiosis Institute of Geoinformatics	
Indonesia, Malaysia	Sumatra, Riau Province (Indonesia) Muar (Malaysia)	Forest Fire (Indonesia) Haze (Malaysia)	2013/4/17	○*	○						LAPAN	
Vietnam	Quy Nhon coastal area	Oil spill	2013/7/7								NRSC (VN)	
Thailand	Chanthaburi Province	Flood	2013/7/23	○*						○	GISTDA	AIT
Japan	Yamaguchi Prefecture	Flood	2013/7/28	○*					○	○	Hiroshima Institute of Technology	Hiroshima Institute of Technology, Yamaguchi Univ., AIT
Myanmar	Kayin State	Flood	2013/7/29	○*							MEC, Myanmar Engineering Society	
Philippines	Metro Manila	Flood, Landslide, Storm	2013/8/19	○*						○	Manila Observatory (MO)	AIT, PHIVOLCS, MO, PAGASA
Pakistan	Rajan Pur, Punjab	Flood	2013/8/Early								WWF (Pakistan)	
Japan	Shimane Prefecture	Flood	2013/8/24	○*					○		Hiroshima Institute of Technology	
India	State of Orissa and Andhra Pradesh	Flood	2013/10/12	○*							IWMI, ICAR (India)	
Philippines	Bohol Island	Earthquake	2013/10/15	○*	○					○	PHIVOLCS	
Japan	Izu Oshima Island (Tokyo)	Land slide	2013/10/16	○*					○	○	JAXA (on behalf of Ministry of Land & Transportation)	
Vietnam	Ha Tinh, Quang Binh and Binh Duong	Storm and Flood	2013/10/14	○*	○					○	MONRE	AIT

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# Implementation frequency of emergency observation in 2012, 13

Year	Request	Implementation	Non-implementation	International Disaster Charter
Cf. 2011	40	31	9	4
<b>2012</b>	<b>25</b>	<b>19</b>	<b>6</b>	<b>2</b>
<b>2013 until Oct.</b>	<b>18</b>	<b>16</b>	<b>2</b>	<b>6</b>



# Problem of emergency observation

- Satellites were inactive when disaster occurred.

Year	Inactive	Implementation	Inactive Ratio
Cf. 2011	5	31	16%
2012	4	19	21%
2013 until Oct.	5	16	31%

# Emergency Observation in 2012



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Papua New Guinea	mountainous Highlands region	Land slide	2012/1/24	○*						NDC(PNG)	
Philippines	Negros Oriental	Earthquake	2012/2/6	○*				○		PHIVOLCS	AIT
Bhutan	Lhuntse District	Wildfire	2012/2/19							MOHCA(BT)	
Kazakhstan	South Kazakhstan	Flood	2012/3/1	○*				○		NCSRT(KZ)	AIT
Kyrgyzstan	Kazarman	Flood	2012/3/27	○*			○	○		CAIAG (KG)	AIT
Thailand, Indonesia	Offshore western Sumatra	Earthquake	2012/4/11							GISTDA, BNPB	
Nepal	Kaski district (Seti River)	Flood	2012/5/5	○*	○					LMTG(NP), ICIMOD	AIT
Tajikistan	Kulob district	Flood	2012/5/11	○*	○					CESCD(TJ)	AIT
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Indonesia	Gamelama volcano	Volcanic Eruption	2012/5/9							BPPT	
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Japan	Ooita and Fukuoka Prefecture	Flood	2012/7/3	○*	○			○		JAXA	AIT, JPYU
China	Beijing	Flood	2012/7/21	○*				○		the Chinese University of Hong Kong	AIT, CUHK
Philippines	Metro Manila	Flood	2012/8/6	○*	○			○	○	NIGS, MO	AIT, LAPAN, Charter
Kazakhstan	south of Almaty city	Wildfire	2012/8/22	○*	○			○		NCSRT(KZ)	AIT
Indonesia	Central Sulawesi	Flash Flood	2012/8/25	○*				○		BPPT	AIT, BPPT
Vietnam	Provinces from Thanh Hoa to Ha Tinh	Flood	2012/9/7	○*						MONRE	
Indonesia	Simpang Hilir, Kayong Utara in West Kalimantan	Forest Fire	2012/9/14							LAPAN	
India	Assam	Flood	2012/9/23	○*			○	○		GHTU (IN)	AIT
Sri Lanka	South-western parts of the island	Cyclone								IWMI	
Indonesia	West Sulawesi	Flash Flood	2012/11/8	○*						LAPAN	
Philippines	North-east part of Mindanao	Cyclone	2012/12/4	○*	○	○			○	MO	AIT, Charter
Brunei	Brunei-Muara District	Flood	2012/12/4	○*						Survey Department of Brunei	AIT
Philippines	Central Philippines	Tropical Storm	2012/12/25	○*				○		MO	AIT

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Indonesia	Manado City, North Sulawesi	Flood, Landslide	2013/2/17	○*	○					LAPAN	AIT
China	Southwestern Sichuan province	Earthquake	2013/4/20	○*	○					the Chinese University of Hong Kong	AIT
Nepal	Khalanga, Darchula district	Flood	2013/6/18	○*						NGIIP, Survey Department, NEPAL	
India	North India, Uttrakhand	Flood	2013/6/17	○*						Symbiosis Institute of Geoinformatics	
Indonesia, Malaysia	Sumatra, Riau Province (Indonesia) Muar (Malaysia)	Forest Fire (Indonesia) Haze (Malaysia)	2013/4/17	○*	○					LAPAN	
Vietnam	Quy Nhon coastal area	Oil spill	2013/7/7							NRSC (VN)	
Thailand	Chanthaburi Province	Flood	2013/7/23	○*					○	GISTDA	AIT
Japan	Yamaguchi Prefecture	Flood	2013/7/28	○*					○	Hiroshima Institute of Technology	Hiroshima Institute of Technology, Yamaguchi
Myanmar	Kayin State	Flood	2013/7/29	○*						MEC, Myanmar Engineering Society	
Philippines	Metro Manila	Flood, Landslide, Storm	2013/8/19	○*					○	Manila Observatory (MO)	AIT, PHIVOLCS, MO, PAGASA
Pakistan	Rajan Pur, Punjab	Flood	2013/8/Early							WWF (Pakistan)	
Japan	Shimane Prefecture	Flood	2013/8/24	○*					○	Hiroshima Institute of Technology	
India	State of Orissa and Andhra Pradesh	Flood	2013/10/12	○*						IWMI, ICAR (India)	
Philippines	Bohol Island	Earthquake	2013/10/15	○*	○				○	PHIVOLCS	
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