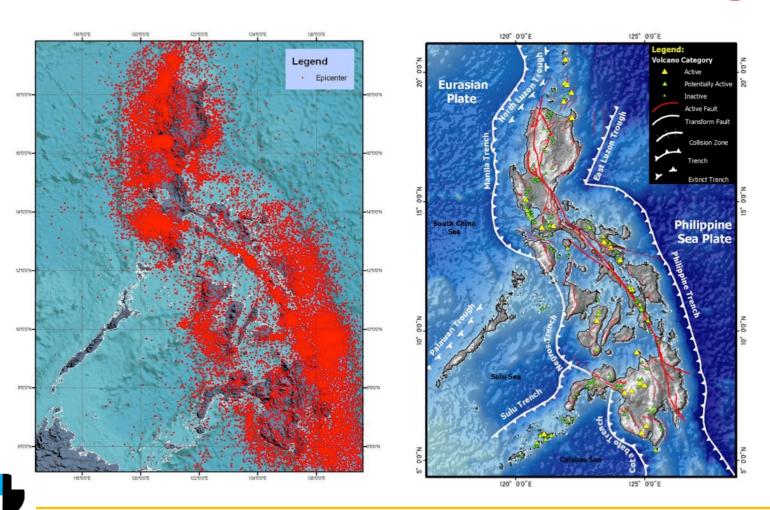
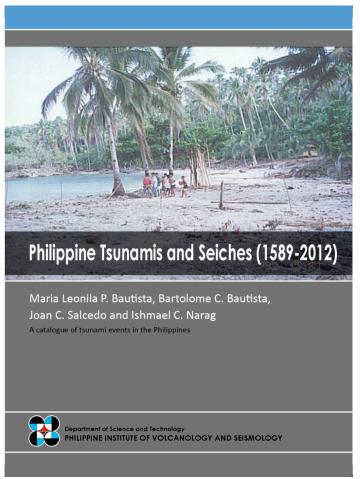
Country Report - Philippines

Philippine Institute of Volcanology and Seismology

Department of Science and Technology

Seismotectonic Setting





Philippine Seismic Network

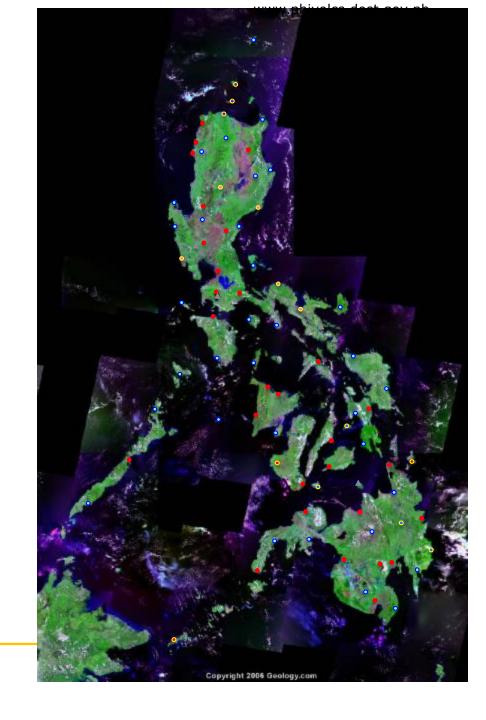
One hundred(111) station network

- Seismic stations
- Volcano observatories

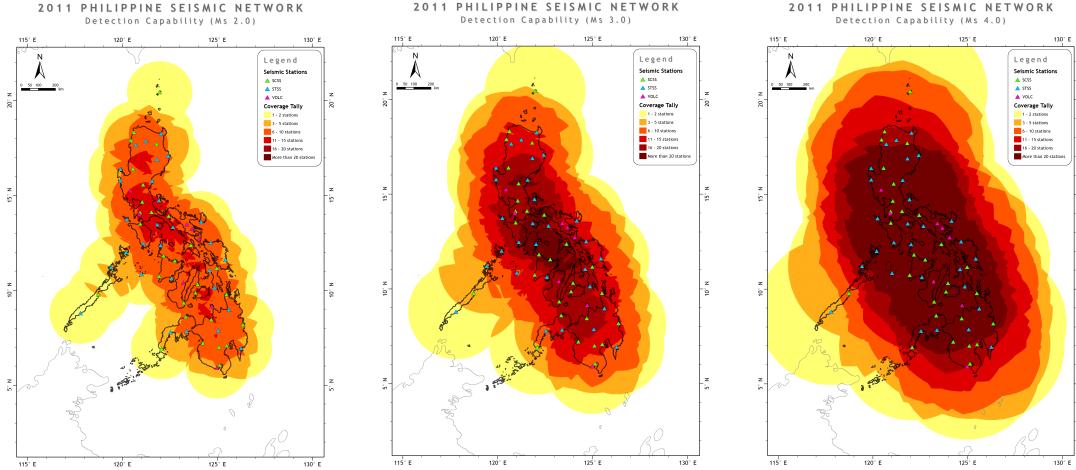
Ongoing Network Development Activities

- Target (2021): 112 stations
- •Target (2022): 115 stations
- Acquisition of earthquake monitoring & communication equipment
- Commissioned Mindanao Cluster Center (Davao) and construction of the Visasyas Cluster Center (Cebu)
- Continued capacity enhancement of technical staff





Event Detectability





Commissioned Seismic Stations

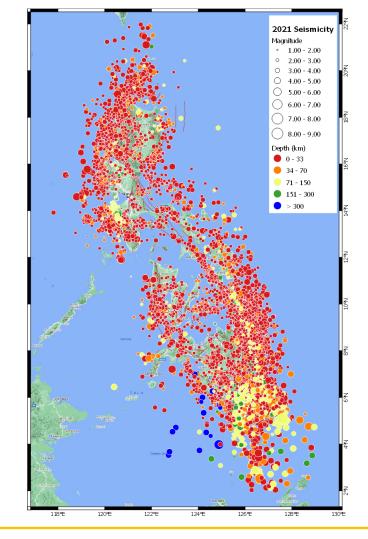


Station Code: SPEP Location: San Policarpo, Eastern Samar



Station Code:SZNP Location: Siocon, Zamboanga del Norte



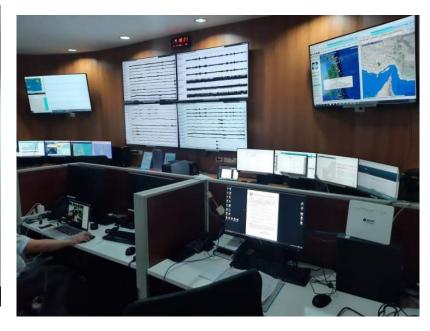




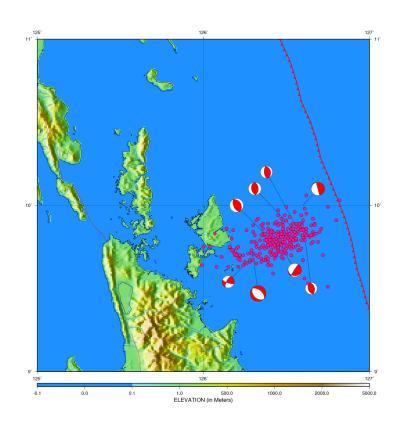
PHIVOLCS Mindanao Cluster Center for Earthquake and Tsunami (PMCMCET)

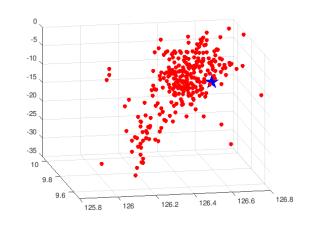


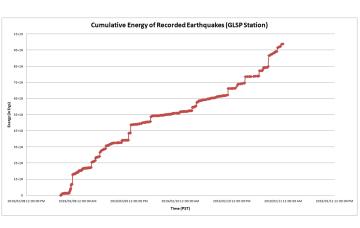


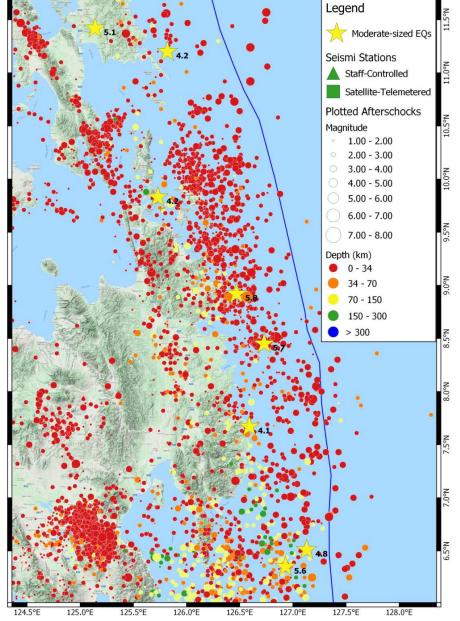


Earthquake Patterns



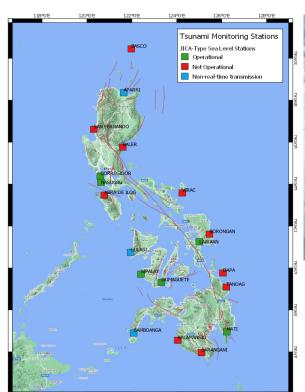








Sea-Level Monitoring Stations

















12 Aug 2021 M7.1 Offshore Mati

Date:

12 Aug 2020

Time:

01:46 AM PST

Coordinates:

04.98°N, 124.01°E

Depth:

013 km

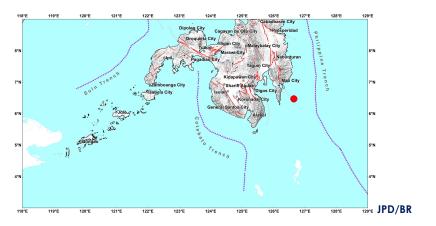
Magnitude:

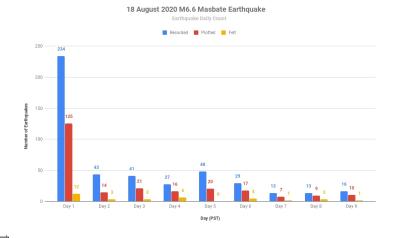
M 7.1

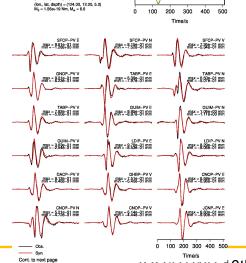
Location:

022 km S 20° E of General Generoso (Davao Oriental)

Recorded	464
Plotted	239
Felt	33
Mag. Range	1.6 - 5.1
Ref. Station	CNPS







20200818000300 faul

 $M_0 = 1.06e + 19 \text{ Nm}$ $M_w = 6.6$







Moment magnitude (M_w) = 6.6 Seismic moment (M_0) = 1.06×10¹⁹ Nm

(Lon, Lat, Depth) = (124.00°E, 12.00°N, 5 km) (Strike 1, Dip 1, Rake 1) = (235°, 64°, -174°)

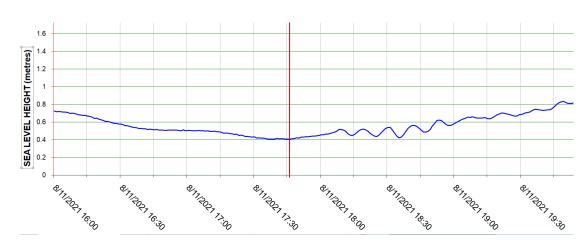
(Strike 2, Dip 2, Rake 2) = $(142^{\circ}, 85^{\circ}, -26^{\circ})$



Department of Science and Technology
Philippine Institute of Volcanology and Seismology

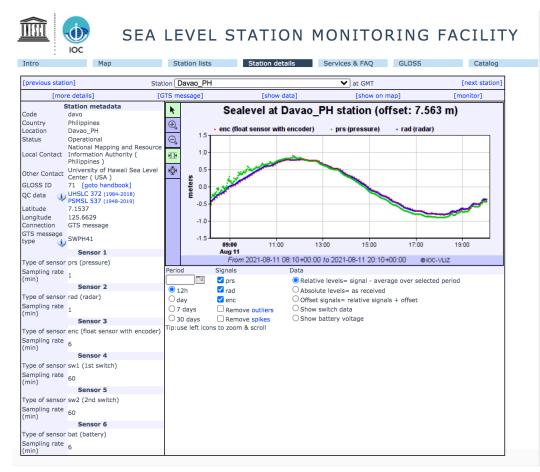
ICG/PTWS 10th Meeting of the Regional Working Group on Tsunami Warning and Mitigation in the South China, 28 and 30 September 2021

12 Aug 2021 M7.1 Offshore Mati



Mati Sea Level Statuin

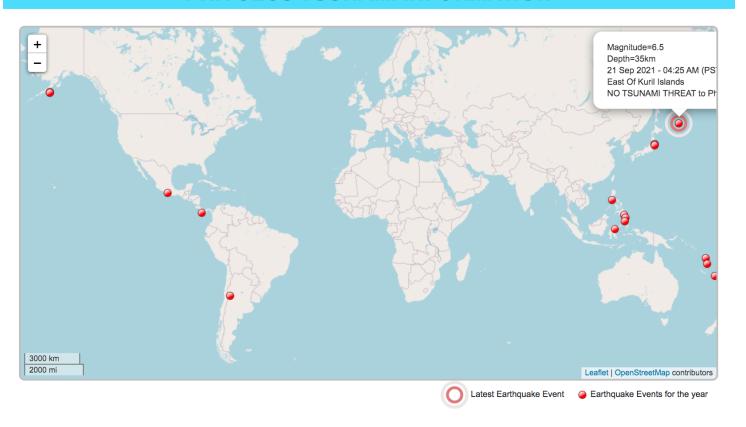
А	В	С	D	E
Date and Time	Sea Level Height (m)		H-Crest to Trough (m)	H-Crest to Trough (cm)
8/11/2021 17:46	0.4092	Event Time		
8/11/2021 18:09	0.5178	1st wave (Crest)	0.0688	6.88
8/11/2021 18:14	0.449	1st wave (Trough)		
8/11/2021 18:19	0.5191	2nd wave (Crest)	0.0823	8.23
8/11/2021 18:25	0.4368	2nd wave (Trough)		
8/11/2021 18:30	0.5412	3rd wave (Crest)	0.1183	11.83
8/11/2021 18:35	0.4229	3rd wave (Trough)		
8/11/2021 18:42	0.5621	4th wave (Crest)	0.0773	7.73
8/11/2021 18:47	0.4848	4th wave (Trough)		
8/11/2021 18:53	0.6238	5th wave (Crest)	0.0619	6.19
8/11/2021 18:58	0.5619	5th wave (Trough)		
	Date and Time 8/11/2021 17:46 8/11/2021 18:09 8/11/2021 18:14 8/11/2021 18:25 8/11/2021 18:30 8/11/2021 18:35 8/11/2021 18:42 8/11/2021 18:47 8/11/2021 18:53	Date and Time Sea Level Height (m) 8/11/2021 17:46	Date and Time Sea Level Height (m) 8/11/2021 17:46 0.4092 Event Time 8/11/2021 18:09 0.5178 1st wave (Crest) 8/11/2021 18:14 0.449 1st wave (Trough) 8/11/2021 18:19 0.5191 2nd wave (Crest) 8/11/2021 18:25 0.4368 2nd wave (Trough) 8/11/2021 18:30 0.5412 3rd wave (Crest) 8/11/2021 18:45 0.4229 3rd wave (Trough) 8/11/2021 18:47 0.4848 4th wave (Crest) 8/11/2021 18:53 0.6238 5th wave (Crest)	Date and Time Sea Level Height (m) H-Crest to Trough (m) 8/11/2021 17:46 0.4092 Event Time 8/11/2021 18:09 0.5178 1st wave (Crest) 0.0688 8/11/2021 18:14 0.449 1st wave (Trough) 0.0823 8/11/2021 18:19 0.5191 2nd wave (Crest) 0.0823 8/11/2021 18:25 0.4368 2nd wave (Trough) 0.1183 8/11/2021 18:30 0.5412 3rd wave (Crest) 0.1183 8/11/2021 18:45 0.4229 3rd wave (Trough) 0.0773 8/11/2021 18:47 0.4848 4th wave (Trough) 0.0619 8/11/2021 18:53 0.6238 5th wave (Crest) 0.0619





Released Tsunami Information

PHIVOLCS TSUNAMI INFORMATION



https://tsunami.phivolcs.dost.gov.ph

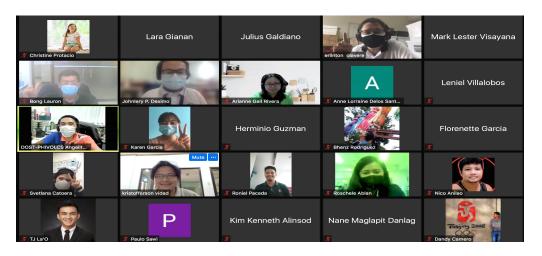
Date and Time(PST)	Latitude	Longitude	Depth ↑↓	Magnitude ↑↓	Location ↑↓	Advisory
21 Sep 2021 - 04:25 AM	45.80°N	153.50°E	35	6.5	East Of Kuril Islands	Tsunami Information # 1
08 Sep 2021 - 09:48 AM	17.10°N	99.60°W	050	7.4	Guerrero, Mexico	Tsunami Information # 1
31 Aug 2021 - 10:53 AM	30.10°S	176.60°W	40	6.5	Kermadec Islands Region	Tsunami Information # 1
18 Aug 2021 - 06:10 PM	14.90°S	166.90°E	084	7.1	Vanuatu	Tsunami Information # 1
14 Aug 2021 - 07:57 PM	55.40°N	157.80°W	032	7.0	Alaska Peninsula	Tsunami Information # 1
12 Aug 2021 - 01:46 AM	6.46°N	126.65°E	069	7.3	Offshore of Davao Oriental	Tsunami Information # 1
29 Jul 2021 - 02:15 PM	55.50°N	157.90°W	017	8.2	Alaska Peninsula	Tsunami Information # 2
29 Jul 2021 - 02:15 PM	55.50°N	157.90°W	018	8.1	Alaska Peninsula	Tsunami Information # 1
26 Jul 2021 - 08:09 PM	0.81°S	122.06*E	030	6.6	Sulawesi, Indonesia	Tsunami Information # 1
24 Jul 2021 - 04:49 AM	13.69°N	120.61*E	116	6.7	Offshore of Batangas	Tsunami Information # 1
22 Jul 2021 - 05:15 AM	7.40°N	82.50*W	034	7.0	South Of Panama	Tsunami Information # 1
10 Jul 2021 - 08:43 AM	03.19°N	126.78*E	070	6.1	Talaud Islands, Indonesia	Tsunami Information # 1
21 Jun 2021 - 01:06 AM	30.20°S	177.30°W	051	6.7	Kermadec Islands New Zealand	Tsunami Information # 1
22 May 2021 - 06:13 AM	16.40°S	177.00°W	010	6.8	Fiji Region	Tsunami Information # 1
01 May 2021 - 09:27 AM	38.10°N	141.80°E	056	6.6	Near The East Coast Of Honshu, Japan	Tsunami Information # 1
01 Apr 2021 - 05:56 PM	30.10°S	176.40°W	105	6.6	Kermadec Islands Region	Tsunami Information # 1
20 Mar 2021 - 05:09 PM	38.40°N	141.70°E	060	7.2	Near East Coast Of Honshu, Japan	Tsunami Information # 1
17 Mar 2021 - 02:38 AM	54.60°N	163.10°E	057	6.9	Off the East Coast of Kamchatka, Russia	Tsunami Information # 1
05 Mar 2021 - 03:28 AM	29.60°S	176.00°W	010	8.0	Kermadec Islands Region	Tsunami Information # 1
05 Mar 2021 - 01:41 AM	29.80°S	177.20°W	010	7.5	Kermadec Islands New Zealand	Tsunami Information # 1
04 Mar 2021 - 09:27 PM	37.80°S	179.50°W	010	7.3	East of North Island New Zealand	Tsunami Information # 1
16 Feb 2021 - 08:49 AM	17.80°S	167.80°E	014	6.7	Vanuatu Islands	Tsunami Information # 1
13 Feb 2021 - 10:07 PM	37.70°N	141.80°E	058	7.1	Near the East Coast of Honshu Japan	Tsunami Information # 1
10 Feb 2021 - 09:20 PM	23.10°S	171.50°E	033	7.9	Southeast of Loyalty Islands	Tsunami Information # 1
24 Jan 2021 - 07:37 AM	62.00°S	55.30°W	010	7.3	South Shetland Islands	Tsunami Information # 1
21 Jan 2021 - 08:23 PM	4.92°N	127.44*E	116	7.1	Offshore Davao Occidental	Tsunami Information # 1
19 Jan 2021 - 10:46 AM	32.00°S	68.70*W	010	6.6	San Juan, Argentina	Tsunami Information # 1



Exercises and Drills











Information Platform

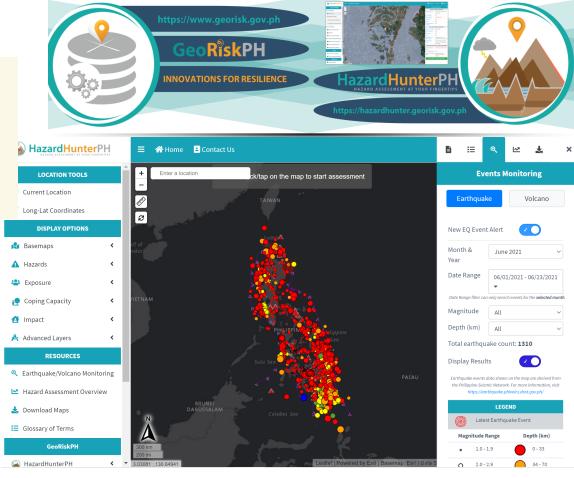


VolcanoPH iNFO
MOBILE APPLICATION











PHIVOLCS Mindanao Cluster Center for Earthquake and Tsunami (PMCCET)

PHIVOLCS Building, Inside PSHS-SMC, Tugbok District, Brgy. Sto Niño, Davao-Bukidnon road, Davao City, Philippines, 8000

Tel no.: +6382 293-0008

Email: pmccet.docs@gmail.com

www.phivolcs.dost.gov.ph





/PHIVOLCS



Earthquake & Tsunami (24/7):

Tel. Numbers

+632 8929-9254

+632 8426-1468 loc 124 / 125

Fax number

+632 8927-1087

Volcano (24/7):

Tel. Numbers

+632 8426-1468 loc 127

Telefax number

+632 8927-1095

IEC materials:

- +632 8426-1468 loc 128
- +632 8927-4524

