



PAKISTAN
METEOROLOGICAL
DEPARTMENT

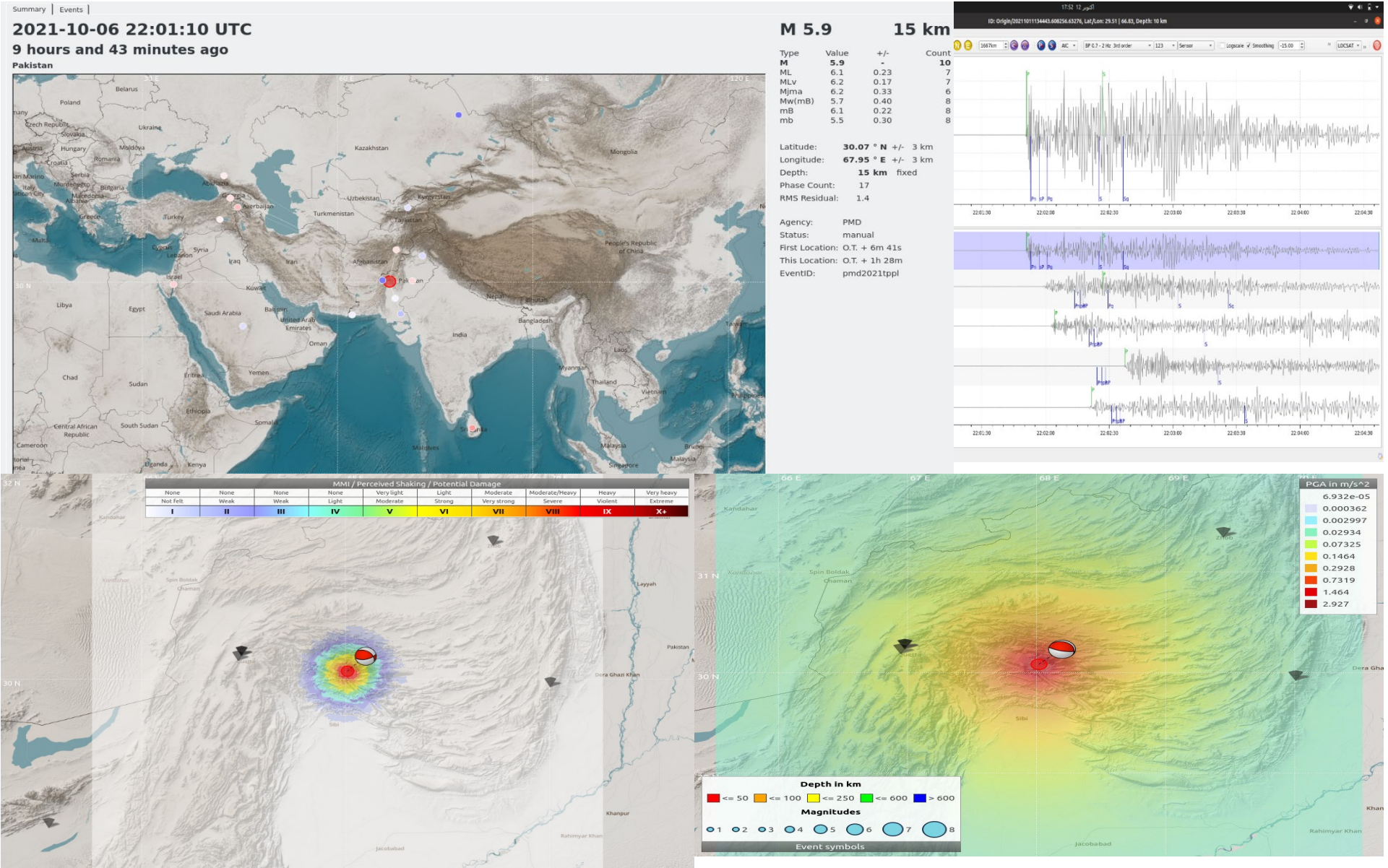
Presented by

AMEER HYDER

Director

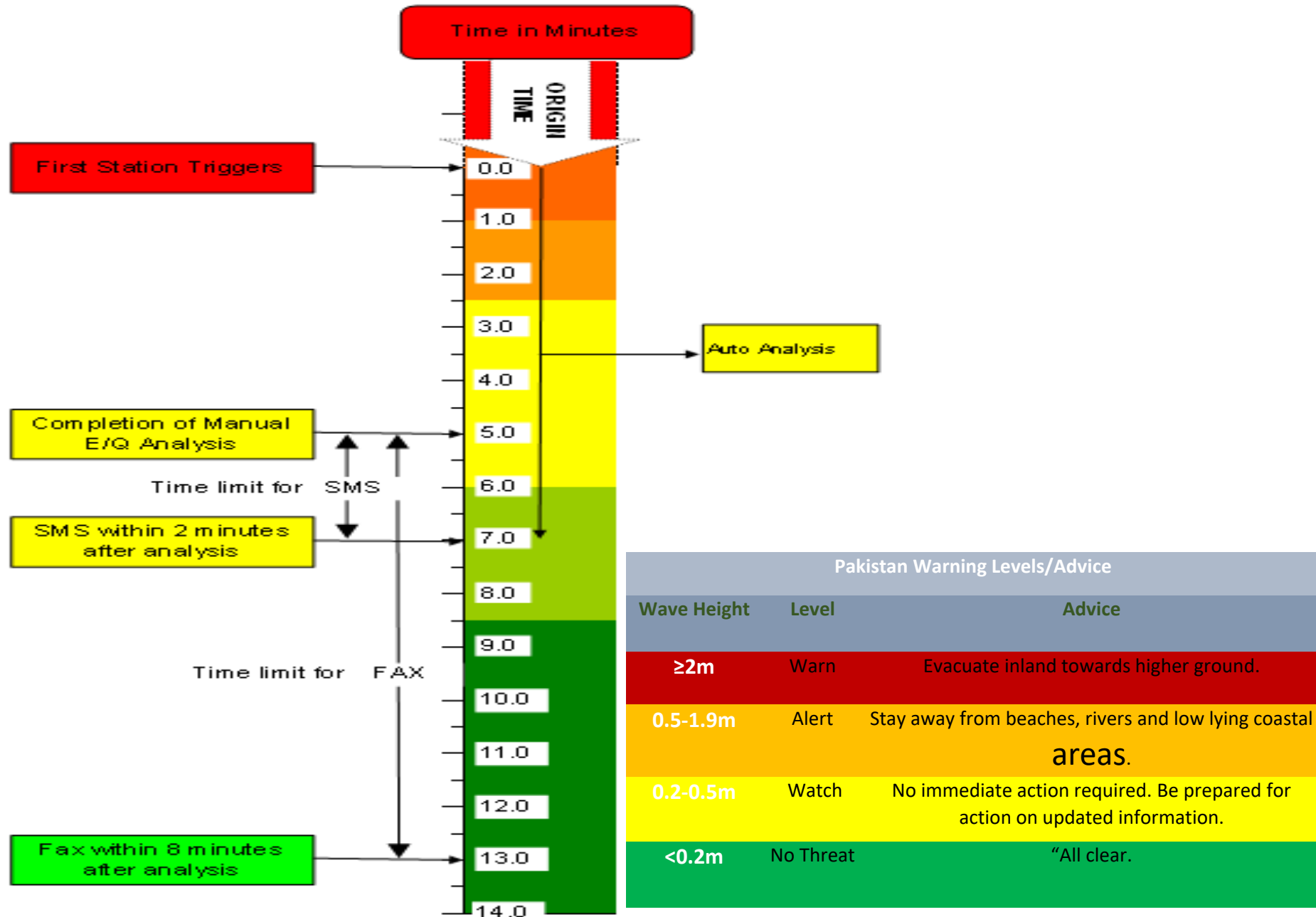
National Tsunami Center Karachi

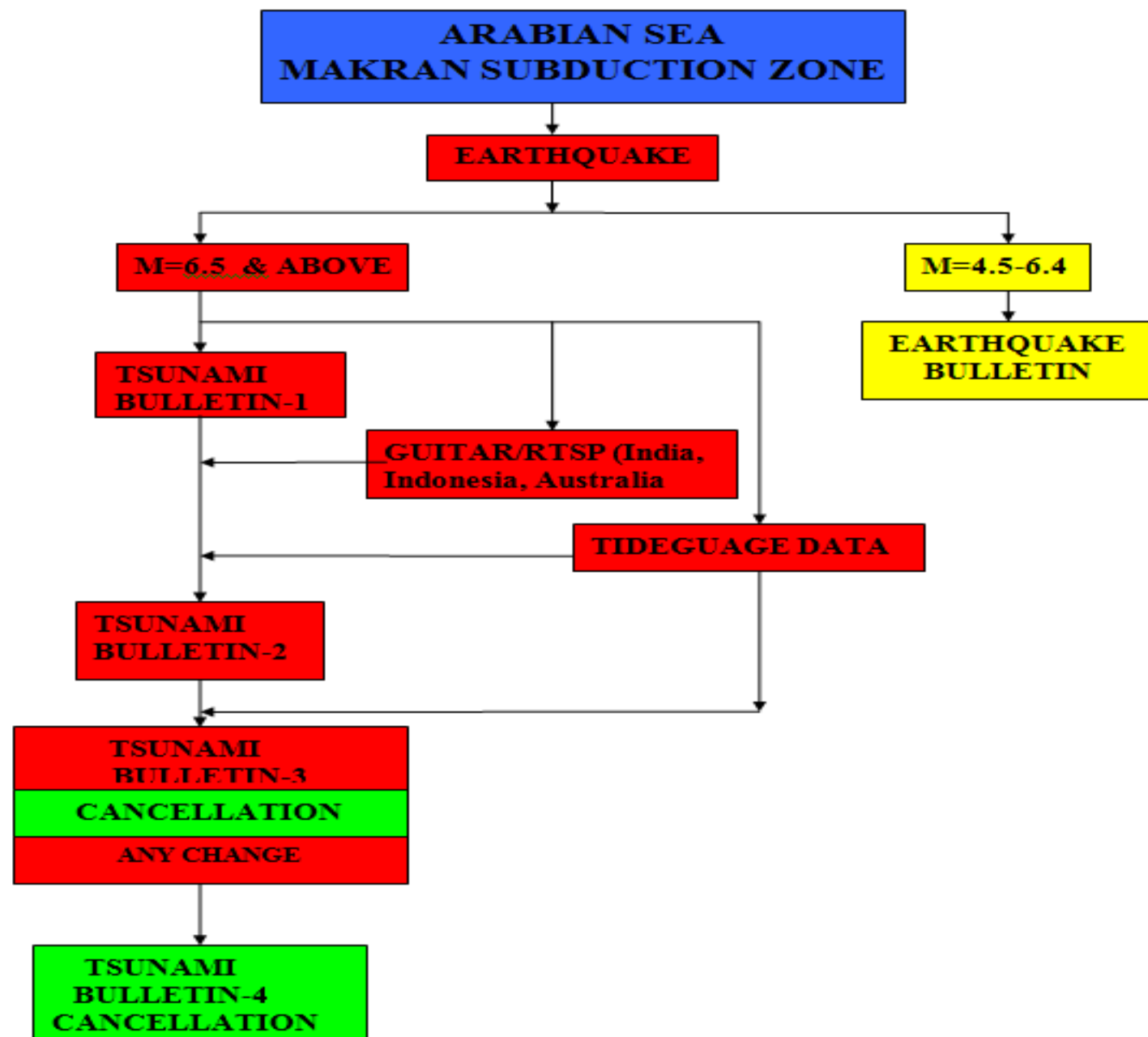
SeiscomP3 Earthquake Analysis Software




Harni earthquake M 5.9 dated 8th Oct. 2021 analysed by SeiscomP3 interface

TIME LINE FOR EARTHQUAKE PROCESSING AND DISSEMINATION OF TSUNAMI BULLETIN (FOR MAKRAN SUBDUCTION ZONE)





Modes of Early Warning Dissemination



Pakistan Meteorological Department
National Seismic Monitoring Centre, Islamabad

© Wednesday, 13 October, 2021 01:55 AM

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Unread Starred Drafts Spam Trash ^ Less Views Hide Photos Documents Subscriptions Folders + New Folder softcopy Tsunami

UR Pakistan Meteorological Department <pmd@isti.com>
To: Undisclosed Recipients

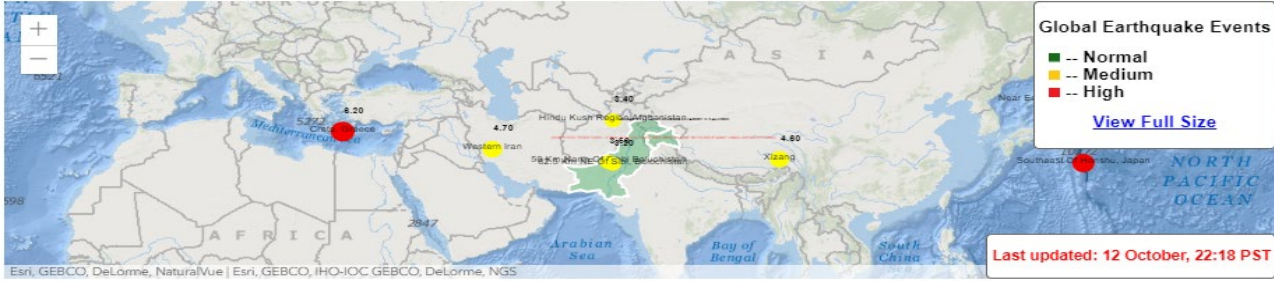
Event: pmd2021tppl
Description: region name: Pakistan
Origin: 2021-10-06
Time: 22:01:08.9 +/- 0.3 s
Latitude: 30.02 deg +/- 3 km
Longitude: 97.08 deg +/- 5 km
Depth: 10 km
Agency: PMD
Mode: automatic
Status: rejected
Residual RMS: 1.97 s
Azimuthal gap: 75 deg

1 Network magnitudes:
M 5.94 7 preferred

11 Phase arrivals:
sta net dist azi phase time res wt sta
ROHR PK 2.5 100 P 22:01:50.4 1.0 A 1.0 ROHR
MULT PK 3.0 86 P 22:01:58.8 1.8 A 1.0 MULT
KBL IJ 4.8 11 P 22:02:19.3 0.8 A 1.0 KBL
HYDB PK 4.7 175 P 22:02:20.5 1.3 A 1.0 HYDB
UMKT PK 4.9 161 P 22:02:22.8 -0.2 A 1.0 UMKT
BADN PK 5.7 177 P 22:02:29.9 -3.1 A 1.0 BADN
TURB PK 6.9 228 P 22:02:38.8 0.2 A 1.0 TURB
ETX KR 10.3 12 P 22:03:35.7 -0.8 A 1.0 ETX
RAYN II 21.0 267 P 22:05:52.9 -0.2 A 1.0 RAYN
KURK II 22.2 18 P 22:06:02.2 -2.7 A 1.0 KURK
BGD GO 22.8 309 P 22:08:12.3 1.9 A 1.0 BGD

No station magnitudes
[Download all attachments as a zip file](#)

epicenter.jpg 61.7 KB traces.png 186.5 KB spectrum.png 78.7 KB



Global Earthquake Events
■ -- Normal
■ -- Medium
■ -- High
[View Full Size](#)

Last updated: 12 October, 22:18 PST

Events (12308)

Date	Time (utc)	Region	Magnitude	Depth (km)	Latitude	Longitude	Mode	Map
12/10/2021	17:09:35	Hindu Kush Region Afghanistan	3.4	96	36.75 N	68.64 E	M	-
12/10/2021	09:24:04	Crete, Greece	6.2	10	35.04 N	26.24 E	A	-
12/10/2021	06:04:09	Vanuatu Islands Region	5.6	511	21.52 S	174.43 E	A	-

Email

PMD Website



FAX



SMS messenger



Siren System

SOP FOR ISSUANCE OF “TSUNAMI BULLETINS” IN ARABIAN SEA (MAKRAN SUBDUCTION ZONE)

1. For earthquakes having magnitude **between 4.5 to 6.4**, only earthquake parameters will be sent to **RESPONSE AUTHORITIES** and **MEDIA** through **SMS** and **FAX**.
2. Maximum four Bulletins will be issued for earthquakes having magnitude **6.5** or above to **RESPONSE AUTHORITIES** and **MEDIA**.
3. **BULLETIN-1**:- This bulletin will contain;
 - i. Earthquake Parameters.
 - ii. Tsunami evaluation based on historical earthquake and tsunami data.
 - *This bulletin will be issued according to time line of Bulletin-1.*
4. **BULLETIN-2**:- This bulletin will contain;
 - i. Revised **Earthquake Parameters** (if so).
 - ii. **Estimated arrival times and wave heights** at various locations along Pakistan Coast based on **Toasts /GTS of Australia, Indonesia and India**.
 - iii. **Tide gauge data** if generation of tsunami has been confirmed.
 - *This bulletin will be issued soon after the dissemination process of Bulletin-1 is completed.*
 - *In case the Tsunami generation is confirmed, the first sentence of Evaluation will be deleted.*

5. **BULLETIN-3:-** This bulletin will contain;

i. Revised **earthquake parameters** (if so).

ii. Tide gauge data of Pakistan Coast to confirm the generation of tsunami.

iii. Any change if tsunami has been confirmed in **Bulletin-2**.

•This bulletin will be issued when ever tide gauge data confirms the tsunami generation (CONFIRMATION).

6. **BULLETIN-4:- (Cancellation)**

i. This bulletin will contain earthquake parameters and tsunami evaluation regarding cancellation.

ii. This will be the last bulletin and will serve as cancellation.

Important. Supplementary bulletins (SMS/FAX) will be issued in between regular bulletins depending upon the prevailing situation.





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Epaper Date: 2021-10-15



DAWN

KARACHI Friday, October 15, 2021

METRO South

KARACHI
 Sunset 06:56 pm
 Sunrise (Tomorrow) 06:29 am

LAST 24 HRS
 Minimum 21.4°C
 Maximum 37.8°C
 Outlook Hot & dry



Tayyab falls as Dussourd sets up El Sirty final Pg.20 SPORT

Cleaner production policy draft finalised

By Faiza Ilyas

KARACHI: The South Environmental Protection Agency (Sepa) at a meeting held at a local hotel on Thursday announced having finalised draft of 'Cleaner production policy' for the province in collaboration with the World Wide Fund for Nature-Pakistan (WWF-P).
 The policy document would now be put on Sepa's official website for a month for a review and comments under Section 18 of the South Environmental Protection Act, 1997.

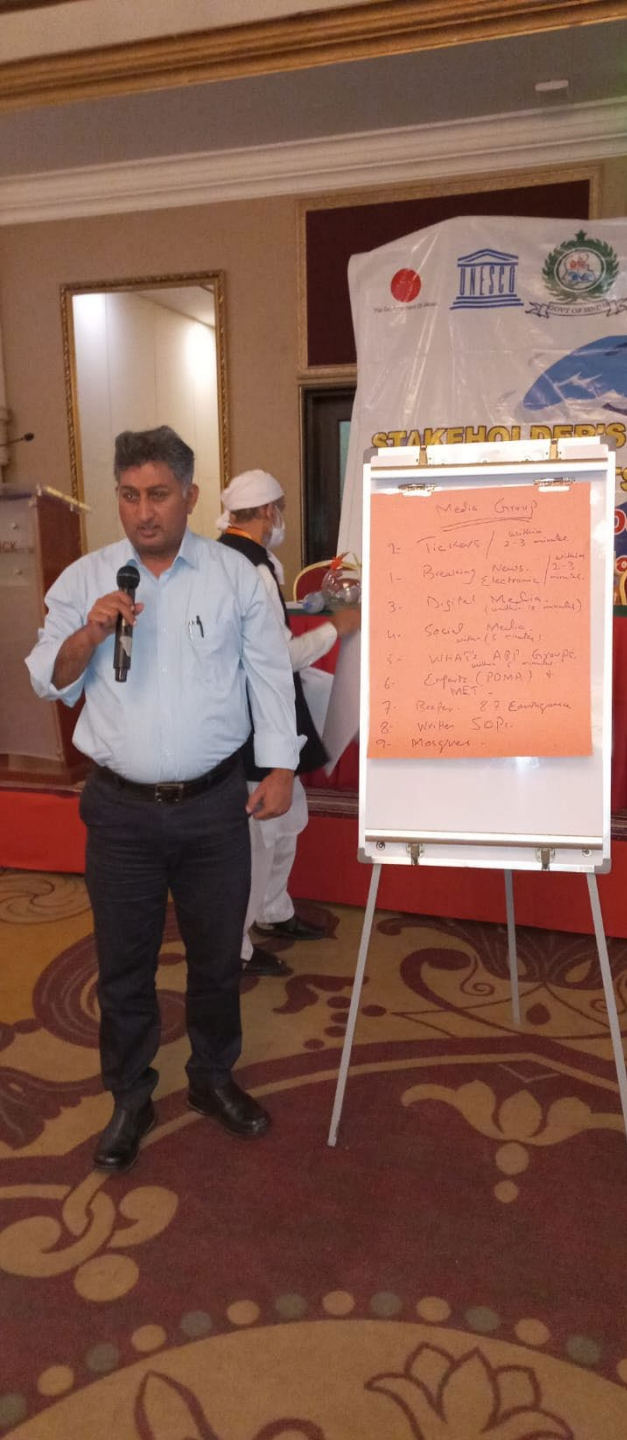


Tsunami strike on coastal areas a probability, fear experts

By Our Staff Reporter

KARACHI: The Met authorities and experts of disaster management on Thursday warned that it was almost imminent that tsunamis would hit the coastal belt of Sindh and Balochistan.
 According to them the tsunamigenic earthquake fault zone in sea has completed its "time scale and return period" after triggering a disaster first in 1945 impacting mainly the Makran coastal belt.
 The warning came during a briefing attended by experts and officials at "Stakeholders' workshop on mitigating the impact of a tsunami on the coastal belt of Sindh and Balochistan."





Media Group

- 2- Tickets / within 2-3 minutes.
- 1- Breaking News - Electronic. / within 2-3 minutes.
- 3- Digital Media (within 10 minutes)
- 4- Social Media within (5 minutes)
- 5- WHAT'S APP Groups. within 5 minutes.
- 6- Experts (PDMA) + MET -
- 7- Beeper - 8-7- Earthquake.
- 8- Written SOPs.
- 9- Mosques -

THANK YOU