To: ICG/NEAMTWS Tsunami Warning Focal Points (TWFPs)
ICG/NEAMTWS Tsunami National Contacts (TNCs)
Members of the ICG/NEAMTWS Steering Committee
ICG/NEAMTWS Chair and Vice-Chairs
ICG/CARIBE-EWS Chair

cc.: Official National Coordinating Bodies for liaison with IOC in Member States of the
ICG/NEAMTWS
Permanent Delegations/Observer Missions to UNESCO and National Commissions
for UNESCO in IOC Member States of the ICG/NEAMTWS
WMO
NAVAREA Coordinators in NEAM region (Spain, France, UK, Norway and USA)

Subject: Second announcement for Tsunami Early Warning and Mitigation System in
the North-Eastern Atlantic, the Mediterranean and Connected Seas –
NEAMTWS Tsunami Exercise ‘NEAMWave17’, 31 October–3 November 2017

An initial announcement of the third Tsunami Exercise in NEAM Region, NEAMWave17, was issued by Circular Letter 2685 on 24 July 2017. With this letter I am pleased to provide additional details about the exercise and how to participate.

NEAMWave17 will involve the simulation of the assessment of a tsunami, based on four earthquake-driven scenarios. The scenarios will include message dissemination by a message provider (Phase A) and subsequent simulation of response actions by national Tsunami Warning Focal Points/National Tsunami Warning Centres (TWFP/NTWC) and Civil Protection Authorities (CPA) actions (Phase B). One of the scenarios will also include simulation of a request for ‘International Assistance’ through the European Commissions’ Union Civil Protection Mechanism and the Emergency Response and Coordination Centre (ERCC) (Phase C). Member States are encouraged to extend the exercise to community level and include critical infrastructure (e.g. hospitals, fire stations, police stations, electric power plants, airports, ports and harbours).
**Exercise Document**

A NEAMWave17 Exercise Instruction Manual and scenarios (IOC Technical Series, 134 Vol.1) are attached with the letter, and will be available online at:


The Manual details the scope and objectives of NEAMWave17, description of NEAMWave17, exercise scenarios, participation forms, description of roles, conduct of NEAMWave17, evaluation of NEAMWave17 as well as media arrangements.

The four scenarios in NEAMWave17 are provided by CENALT (CENtre d'ALerte aux Tsunamis, France, to be conducted on 31 October morning), KOERI (Kandilli Observatory and Earthquake Research Institute, Turkey, to be conducted on 1 November morning), INGV-NOA (Centro Nazionale Terremoti, Istituto Nazionale di Geofisica e Vulcanologia (Italy) - Institute of Geodynamics, National Observatory of Athens (Greece) to be conducted on 2 November morning/afternoon and IPMA (Instituto Português do Mar e da Atmosfera, Portugal, to be conducted on 3 November morning/afternoon). The mentioned institutions will act as Message Provider during the exercise for their respective scenarios. Member States are free to subscribe to more than one scenario during the exercise. The calendar below summarizes the four different scenarios and details the phases that will be carried out.

<table>
<thead>
<tr>
<th>Scenario</th>
<th>31/10/2017 9:00 – 10:20 UTC</th>
<th>01/11/2017 9:00 – 12:00 UTC</th>
<th>02/11/2017 9:00 – 12:30 UTC</th>
<th>03/11/2017 9:00 – 16:00 UTC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Mediterranean scenario (CENALT)</td>
<td></td>
<td>Phase A, B and C (Phase C will end in the afternoon)</td>
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<td></td>
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<tr>
<td>Eastern Mediterranean scenario (KOERI)</td>
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<td></td>
<td>Phase A and B</td>
<td></td>
</tr>
<tr>
<td>Central Mediterranean scenario (INGV-NOA)</td>
<td></td>
<td></td>
<td>Phase A and B</td>
<td></td>
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<tr>
<td>North East Atlantic scenario (IPMA)</td>
<td></td>
<td></td>
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<td>Phase A and B</td>
</tr>
</tbody>
</table>
Participation Application Form and National Contact for Exercise (NCE)

Member States are invited to fill out and send to the IOC Secretariat the “Application form to participate in NEAMWave17” by no later than 12 October 2017 (please see attached form). The form provides information on a country’s participation, including the phases in which it would like to participate and the scenario(s) it would like to subscribe to. Where applicable, National Civil Protection Authorities are also encouraged to participate in phase C, which is performed only for the Western Mediterranean scenario (to be conducted by CENALT on 31 October). In this phase it is possible to either simulate a request for international assistance. Further details can be found in the manual.

For NEAMWave 17, the National Contact forExercise (NCE) is the Tsunami National Contact (TNC) by default, unless communicated otherwise to the IOC. The TNC and/or the designated NCE will be the points of contact for communication concerning the conduct of the exercise, and will be expected to confirm the accuracy of existing tsunami warning arrangements within your country, including the identification of operational points of contact for receipt and dissemination of tsunami messages. The designated NCE will also be responsible for coordinating inputs to the exercise evaluation. Contact details for the NCE (if not TNC) should be provided on the form mentioned above.

NEAM Tsunami Forecast Points

The messages that will be sent out during the exercise will contain so called Tsunami Forecast Points (TFPs). A TFP is a location for which an estimate is provided for the tsunami arrival time and/or wave height. The TFPs may correspond to important coastal cities or populations, and/or to the location of sea level gauges. Some Member States have provided their TSPs to IOC. Member States planning to participate in NEAMWave 17 are strongly encouraged to provide their TFPs to IOC no later than 12 October 2017.

In summary, I invite you to provide by 12 October 2017:

1) Participation Form duly filled out; and

2) Tsunami Forecast Points (TFPs) chosen by your country.

Please send the above information to ICG/NEAMTWS Secretariat by e-mail (d.chang-seng@unesco.org).

Over the last two years several tsunamis have been recorded in the NEAMTWS region (e.g. Aegean Sea (12 June and 21 July 2017), Alboran Sea (25 January 2016) and Ionian Sea (17 November 2015)) and they are a reminder that the Tsunami threat is real in the NEAM region. The NEAMWave 17 will provide NEAMTWS Member States an opportunity for a comprehensive test of their readiness and response procedures and I encourage all Member States to participate.

Yours sincerely,

[signed]

Vladimir Ryabinin
Executive Secretary

Enclosures:

1 - Tsunami Exercise NEAMWave17: Exercise Instructions (in English only)
2 - Application form to participate in NEAMWave17 exercise
# APPLICATION FORM TO PARTICIPATE IN NEAMWave 17

Please, fill in this form and send it back to the IOC Secretariat (neamwave@unesco.org) and a copy to d.chang-seng@unesco.org through your National Contact for the Exercise (NCE)* no later than 12 October 2017.

<table>
<thead>
<tr>
<th>COUNTRY:</th>
<th>CONTACT ADDRESS</th>
</tr>
</thead>
</table>
| National Tsunami Warning Centre (update only if there are changes to contact address) | Institution: 
Address: 
Email addresses to receive the exercise messages: 
Mobile to receive the exercise messages (sms): 
Fax numbers to receive the exercise messages: 
GTS contact details to receive the exercise messages: 
Landline: |
| Tsunami Warning Focal Point (update only if there are changes to contact address) | Name: 
Surname: 
Email address to receive the exercise messages: 
Landline: 
Mobile to receive the exercise messages (sms): 
Fax: |
| National Contact for Exercise* (The National Contact for Exercise (NCE) is the Tsunami National Contact (TNC) by default) | Name: 
Surname: 
Email address to receive the exercise messages: 
Landline: 
Mobile to receive the exercise messages (sms): 
Fax: |
| Civil Protection Agency (CPA) (Institution Contact) | Institution: 
Address: 
Institutional email addresses to receive the exercise messages: 
Mobile to receive the exercise messages (sms): 
Fax numbers to receive the exercise messages: 
GTS contact details to receive the exercise messages: 
Landline: |
| Civil Protection Agency (Person Contact) | Name: 
Surname: 
Email address to receive the exercise messages: 
Landline: 
Mobile to receive the exercise messages (sms): 
Fax: |
| Observers¹ | | |

**Exercise scenarios²** (please select exercise scenarios in which the Member State will take part, for each one ticking the exercise phases which will be implemented)

| Western Mediterranean scenario by CENALT (France) | 31/10/2017, morning 
Participation to this scenario (yes/no): |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Phase A: the participation to this phase is by default, once the Country chooses to participate in NEAMWave17</td>
</tr>
<tr>
<td></td>
<td>Phase B (yes/no; type of exercise to be implemented at national scale¹⁰):</td>
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</tbody>
</table>
| | 31/10/2017, afternoon 
Phase C (please select the option): |
| | □ Participation as affected Country which requires international assistance |
| | □ Participation as Country offering international assistance |
| | □ No participation |

¹ Suggestion is to have maximum two observers per institution.
² The participating Member States can adapt the proposed scenarios according to their own needs and objectives.
<table>
<thead>
<tr>
<th>Location</th>
<th>Date and Time</th>
<th>Participation Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Mediterranean scenario by KOERI (Turkey)</td>
<td>01/11/2017, morning</td>
<td>Participation to this scenario (yes/no): Phase A: the participation to this phase is by default, once the Country chooses to participate in NEAMWave17 Phase B (yes/no; type of exercise to be implemented at national scale):</td>
</tr>
<tr>
<td>Central Mediterranean scenario by INGV (Italy)</td>
<td>02/11/2017, morning</td>
<td>Participation to this scenario (yes/no): Phase A: the participation to this phase is by default, once the Country chooses to participate in NEAMWave17 Phase B (yes/no; type of exercise to be implemented at national scale):</td>
</tr>
<tr>
<td>Central Mediterranean scenario by NOA (Greece)</td>
<td>02/11/2017, morning</td>
<td>Participation to this scenario (yes/no): Phase A: the participation to this phase is by default, once the Country chooses to participate in NEAMWave17 Phase B (yes/no; type of exercise to be implemented at national scale):</td>
</tr>
<tr>
<td>North East Atlantic scenario by IPMA (Portugal)</td>
<td>03/11/2017, morning</td>
<td>Participation to this scenario (yes/no): Phase A: the participation to this phase is by default, once the Country chooses to participate in NEAMWave17 Phase B (yes/no; type of exercise to be implemented at national scale):</td>
</tr>
</tbody>
</table>

List of the Tsunami Forecast Points for which expected arrival times and wave heights are requested to be included in the exercise scenario (coordinates)\(^5\) (provide these only if IOC official coordinates provided to IOC need to be updated)

**Definitions**

Tsunami National Contact (TNC): The person designated by an ICG Member State government to represent his/her country in the coordination of international tsunami warning and mitigation activities. The person is part of the main stakeholders of the national tsunami warning and mitigation system programme. The person may be the Tsunami Warning Focal Point from the national disaster management organization, from a technical or scientific institution, or from another agency with tsunami warning and mitigation responsibilities.

National Tsunami Warning Centre (NTWC): A centre officially designated by the government to monitor and issue tsunami warnings and other related statements within the country according to established national Standard Operating Procedures.

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\(^3\) E.g., orientation exercise, drill exercise, table top exercise, functional exercise, full scale exercise (refer to paragraph 3.3.2 for further details)

\(^4\) Since INGV (Italy) and NOA (Greece) are performing one common scenario in Central Mediterranean, Member States are free to subscribe to either one of the TSP or both of them according to their preferences. The Member States that will choose the Central Mediterranean scenario will have the possibility to receive tsunami exercise messages from INGV and NOA or just from one of the two providers.

\(^5\) If not listed here, Tsunami Forecast Points (TFPs) will be selected and used by C/TSPs.
Tsunami Warning Focal Point (TWFP): A 24x7 point of contact (office, operational unit or position, not a person) officially designated by the NTWC or the government to receive and disseminate tsunami information from an ICG Tsunami Service Provider according to established national Standard Operating Procedures. The TWFP may or not be the NTWC.