

Tsunami evacuation signs, examples in France

French West Indies and Cannes



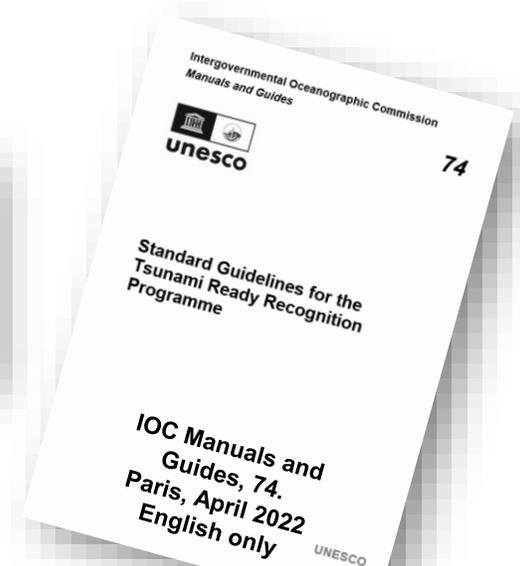
Matthieu PEROCHE

Université Paul-Valéry Montpellier 3
EA LAGAM - Route de Mende
34 199 Montpellier

| II | PREPAREDNESS (PREP) |
|----|--|
| 4 | PREP-1. Easily understood tsunami evacuation maps are approved. |
| 5 | PREP-2. Tsunami information including signage is publicly displayed. |
| 6 | PREP-3. Outreach and public awareness and education resources are available and distributed. |
| 7 | PREP-4. Outreach or educational activities are held at least three times a year. |
| 8 | PREP-5: A community tsunami exercise is conducted at least every two years. |

The most visible way to educate the public about the tsunami hazard in the coastal zone is by using signboards. The tsunami signage will contribute to public awareness of the risk posed by tsunamis and better understanding of what should be done by the community in response to the event. It is critical that residents and tourists be aware of tsunami hazard zones, evacuation routes and safe zones in coastal areas.

- Signage needs to comply with national and/or international standards specifications.
- Signage must inform both the local population and international visitors.
- Local or national authorities have to define the number of signs by localities, but at a minimum, there must be signs for public education and signage for evacuation
- The adoption of a tsunami signage standard will provide a basis for a consistent set of signage and symbols nationwide.



In 2008, the International Organization for Standardization (ISO) approved international signage for tsunami hazard zones, evacuation areas and evacuation buildings.

[ISO 20712](#) on water safety signs and beach safety flags provides guidance on safety signs that provide information about aquatic hazards and the action necessary to avoid those hazards, including signage for tsunami hazard areas.

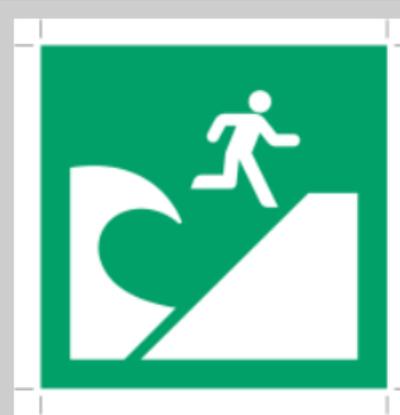


Reference No : W056

Category : Warning

Registration date : 2019-07-30

Status : Active

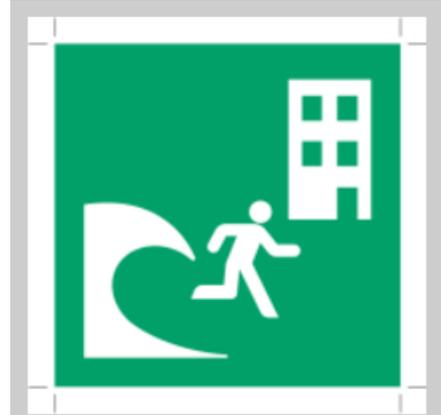


Reference No : E062

Category : Evacuation route, location of safety equipment or safety facility, safety action

Registration date : 2019-07-30

Status : Active



Reference No : E063

Category : Evacuation route, location of safety equipment or safety facility, safety action

Registration date : 2019-07-30

Status : Active

http://itic.ioc-unesco.org/index.php?option=com_content&view=article&id=1645&Itemid=2322

<https://www.iso.org/obp/ui#iso:grs:7010:E063>

CARIBE EWS Tsunami Signage Inventory and Report

CARIBE EWS Tsunami Signage Inventory and Report

Working Group IV
Preparedness, Readiness and Resilience
UNESCO/IOC CARIBE EWS
Revised: December 2 2020

| Costa Rica | | |
|-------------------|--------------------------------------|--|
| Signage Art/Photo | Signage Type | General Information |
| | Tsunami Hazard Zone | Width/Height (ft.): 90 cm x 60 cm Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: Quepos: 55 Ostional: 5 |
| | Entering/Leaving Tsunami Hazard Zone | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: Ostional: 13 |
| | Tsunami Evacuation Route | Width/Height (ft.): 90 cm x 60 cm Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: Quepos: 254 Ostional: 1 |
| | Tsunami Assembly Point | Width/Height (ft.): 90 cm x 60 cm Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: Quepos: 77 Ostional: 2 |
| | Tsunami Evacuation Map | Width/Height (ft.): 2.2 m x 2.1 m Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: Quepos: 13 |
| | Tsunami Ready Recognition | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |

Person Completing Survey: Silvia Chacón Barrantes (silviach@una.ac.cr)
Member State Contact Information:
NTWC: Sistema Nacional Monitoreo de Tsunami, Dr. Silvia Chacón Barrantes, Coordinator. Tel: +50683096690, +50688957414, +50622102872.
E-mail: sinamot@una.cr, silviach@una.ac.cr, sinamot.cr@gmail.com
Comments: There are two communities recognized as Tsunami Ready in Costa Rica: Quepos and Ostional. Both communities use two different types of tsunami signage. Quepos signage are mainly green and yellow, meanwhile the signage of Ostional are blue.

| Honduras | | |
|-------------------|--------------------------------------|--|
| Signage Art/Photo | Signage Type | General Information |
| | Tsunami Hazards Zone | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Entering/Leaving Tsunami Hazard Zone | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Tsunami Evacuation Route | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Tsunami Assembly Point | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Tsunami Evacuation Map | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Tsunami Ready Recognition | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |

Person Completing Survey:
Member state Contact Information:
NTWC & TWFP: Comisión Permanente de Contingencias, Mr. Juan José Reyes (Alerta Temprana) Tel: +50433994815
Email: martincito1968@yahoo.com
TNC: Comisión Permanente de Contingencias, Lic. Oscar Renan Mencia Irias (Director Nacional de Gestión de Preparación y Respuesta a la Emergencia) Tel: +50422290606 ext 3301 Email: oscar.mencia@copeco.gob.hn
Comments: The signage belongs to the Cedeño community, located in the Pacific coast of Honduras.
(Note form CTWP):

| Trinidad & Tobago | | |
|-------------------|--------------------------------------|---|
| Signage Art/Photo | Signage Type | General Information |
| | Tsunami Hazards Zone | Width/Height (ft.): 24" x 24" Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: 7 |
| | Entering/Leaving Tsunami Hazard Zone | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Tsunami Evacuation Route | Width/Height (ft.): 36" x 36" Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: 7 |
| | Tsunami Assembly Point | Width/Height (ft.): 36" x 24" Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: 2 |
| | Tsunami Evacuation Map | Width/Height (ft.): Materials (e.g. aluminum, plastic, or fiber glass): Number of Signs Installed: |
| | Tsunami Ready Recognition | Width/Height (ft.): 36" x 24" Materials (e.g. aluminum, plastic, or fiber glass): Aluminum Number of Signs Installed: 1 |

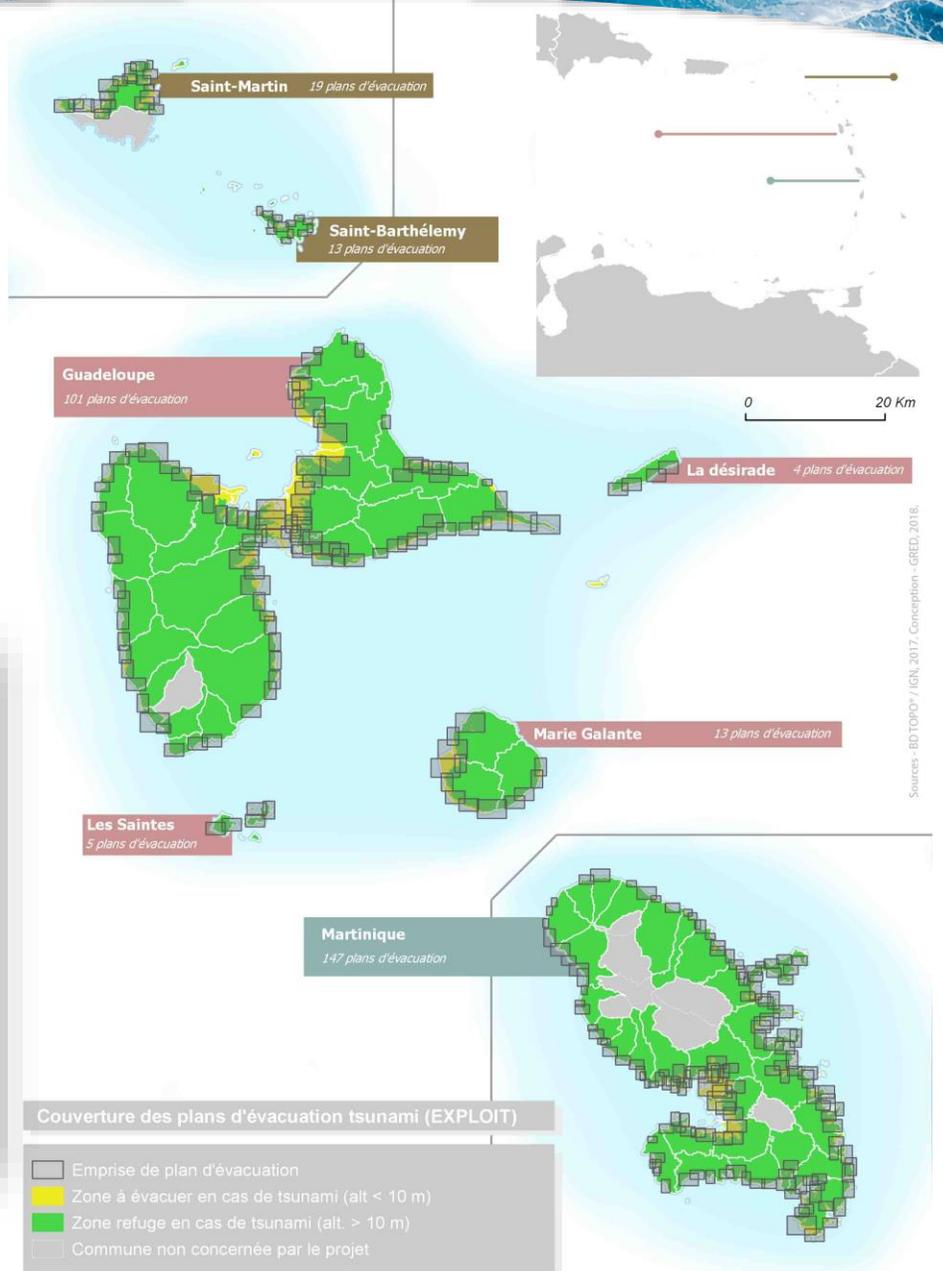
Person Completing Survey: Muhammad Anwar Baksh
Member state Contact Information:
NTWC: Office of Disaster Preparedness and Management (ODPM), Rodney Smart (Chief Executive Officer) Tel: +18686401285 Email: rsmart@mns.gov.tt, odpmalerts@mns.gov.tt
TWFP: Trinidad and Tobago Meteorological Services, Mr. Ezekiel Sampson (Director) Tel: +18686694392, +18686695465 Email: sinag@mstoffice.gov.tt, Seide-Shahar@mstoffice.gov.tt, dirmet@mstoffice.gov.tt
Comments: The signage correspond to the community of Carenage.
(Note form CTWP):

The first tsunami evacuation signs in the French West Indies (Martinique, 2013)



Signage implementation in the FWI

EXPLOIT - Se préparer à une évacuation en cas d'alerte tsunami aux Antilles



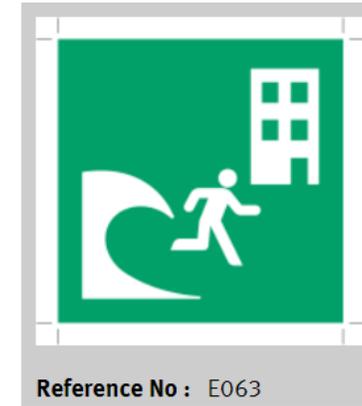
EXPLOIT - Se préparer à une évacuation en cas d'alerte tsunami aux Antilles

CARTOGRAPHIE INTERACTIVE

<https://exploit.univ-montp3.fr/>

Sources - BD TOPO® / IGN, 2017. Conception - GRED, 2018.

The ISO-approved signage consists of three signs :



Tsunami Hazard Zone (left) - To warn of a hazard from tsunami waves

• **Tsunami Evacuation Area (middle)** - To indicate the location of a safe place/uphill area for evacuation to in the event of a tsunami

• **Tsunami Evacuation Building (right)** - To indicate the location of a safe building for evacuation in the event of a tsunami

Signage implementation in the FWI

The ISO-approved signage consists of three signs :

ICG/IOTWS-VI10
Hyderabad, 7-9 April 2009
Page 5

ANNEX II
ISO 20712-1:2008 (E), Table 3 – Warning: Tsunami Hazard Zone

| | |
|--|--|
|  | Reference No. WSW014 |
| | Referent Warning: Tsunami hazard zone |
| | Function To warn of a hazard from tsunami waves |
| | Image content Rolling shape of a tsunami wave |

Hazard
Tsunami wave originating from an ocean floor seismic event in which people could be caught

Human behaviour that is intended to be caused after understanding the safety sign's meaning
Evacuation from coastal/beach zone towards higher ground inland in the event of an earthquake or when a tsunami warning has been issued

Human behaviour that is intended to be prevented
Remaining in the coastal/beach zone or running into the sea or wrong direction when a tsunami warning has been issued

Need
Although tsunami mitigation plans have been prepared and are available to civil protection agencies, they shall be complemented by signs that warn the population in zones that will be specifically affected in the case of a tsunami event (moundation areas). The population should immediately leave this zone in case of an earthquake. People can be injured or drowned and they need to be warned of potential danger.

Related referents
WSE002, WSE003, WSW023

Field of application
Workplaces, public areas

Format of application
Multiple signs in relevant coastal/beach zones and evacuation routes, notices, safety manuals

Context of use
In tsunami hazard zones. The tsunami hazard zone sign should be complemented by WSE002 or WSE003 that provide directions towards a safe area/evacuation area or tsunami evacuation building, respectively.

Additional information
This water safety sign has been the subject of extensive research by the Japanese Government and has also been requested by UNESCO as part of an overall approach to a management strategy designed to mitigate the disastrous effects of a tsunami wave. The design selected has received the best comprehension results and is specific to the special circumstances of the tsunami hazard. Supplementary text shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.

The particular circumstances of the tsunami wave and its nature as a vast volume of water indicated that, for exceptional reasons, the "exclusion zone" (as specified in ISO 3664-3) should be entered to gain the best comprehension test results.

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ANNEX III
ISO 20712-1:2008 (E), Table 3 – Tsunami Evacuation Area

| | |
|---|---|
|  | Reference No. WSE002 |
| | Referent Tsunami evacuation area |
| | Function To indicate the location of a safe place/uphill area for evacuation in the event of a tsunami |
| | Image content Human figure between a slope of land mass and a tsunami wave |

Hazard
Tsunami wave originating from an ocean-floor seismic event in which people could be caught if they have not reached the tsunami evacuation area

Human behaviour that is intended to be caused after understanding the safety sign's meaning
Evacuation from coastal/beach zone towards higher place/inland in the event of an earthquake or when a tsunami warning has been issued

Human behaviour that is intended to be prevented
Remaining in the coastal/beach zone or running in the sea or wrong direction when a tsunami warning has been issued

Need
Although tsunami mitigation plans have been prepared and are available to civil protection agencies, they shall be complemented by signs that advise the population on directions to take to tsunami evacuation areas. People can be injured or drowned if they are not given indication of location of tsunami evacuation areas and directions to them.

Related referents
WSE003, WSW014

Field of application
Workplaces, public areas

Format of application
Multiple signs in relevant coastal/beach zones and evacuation routes, notices, safety manuals

Context of use
In tsunami hazard zones, signing of evacuation routes to tsunami evacuation areas should consist of WSE002 supplemented by the appropriate direction arrow ISO 7010-E005 or ISO 7010-E006. WSE002 shall be used to indicate the location of a tsunami evacuation area.

Additional information
This water safety sign has been the subject of extensive research by the Japanese government and has also been requested by UNESCO as part of an overall approach to a management strategy designed to mitigate the disastrous effects of a tsunami wave. The design selected has received the best comprehension results and is specific to the special circumstances of the tsunami hazard. Supplementary text shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.

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Hyderabad, 7-9 April 2009
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ANNEX IV
ISO 20712-1:2008 (E), Table 3 – Tsunami Evacuation Building

| | |
|---|--|
|  | Reference No. WSE003 |
| | Referent Tsunami evacuation building |
| | Function To indicate the location of a safe building for evacuation in the event of a tsunami |
| | Image content Human figure between a building and a tsunami wave |

Hazard
Tsunami wave originating from an ocean-floor seismic event in which people could be caught if they have not reached the tsunami evacuation building

Human behaviour that is intended to be caused after understanding the safety sign's meaning
Evacuation from coastal/beach zone towards a tsunami evacuation building in the event of an earthquake or when a tsunami warning has been issued

Human behaviour that is intended to be prevented
Remaining in the coastal/beach zone or running in the sea or wrong direction when a tsunami warning has been issued

Need
Although tsunami mitigation plans have been prepared and are available to civil protection agencies, they shall be complemented by signs that advise the population on directions to take to tsunami evacuation buildings. People can be injured or drowned if they are not given indication of location of tsunami evacuation buildings and directions to them.

Related referents
WSE002, WSW014

Field of application
Workplaces, public areas

Format of application
Multiple signs in relevant coastal/beach zones and evacuation routes, notices, safety manuals

Context of use
In tsunami hazard zones, signing of evacuation routes to tsunami evacuation buildings should consist of WSE003 supplemented by the appropriate direction arrow ISO 7010-E005 or ISO 7010-E006. WSE003 shall be used to indicate the location of a tsunami evacuation building.

Additional information
This water safety sign has been the subject of extensive research by the Japanese government and has also been requested by UNESCO as part of an overall approach to a management strategy designed to mitigate the disastrous effects of a tsunami wave. The design selected has received the best comprehension results and is specific to the special circumstances of the tsunami hazard. Supplementary text shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.

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ANNEX V. ISO 20712-3:2008 (E), Annex E – Examples of Tsunami Signing System

Examples of tsunami signing system

The example layouts in this annex illustrate an assembly of safety sign components that constitute a tsunami signing system. The tsunami signing system should identify the following:

- ↓ tsunami hazard zone;
- ↓ tsunami evacuation route to a tsunami evacuation area;
- ↓ tsunami evacuation route to a tsunami evacuation building;
- ↓ tsunami evacuation area;
- ↓ tsunami evacuation building.

In tsunami hazard zones of the seashore, the tsunami warning sign ISO 20712-1-WSW014 should be used. The recommended supplementary text for signs positioned close to the seashore should be "Warning - 'Tsunami hazard zone'", see example in Figure E.1. Additional signs can be positioned where the height of the ground is at least 2 m above sea level for example. The recommended supplementary text on these signs should be "Warning - Ground height 2 m above sea level", see example in Figure E.1.



Figure E.1 — Examples of sign

Directional signs on evacuation routes to tsunami evacuation together with the appropriate direction arrow, ISO 7010-E supplementary text for these signs should include the name and direction. Figure E.2 a) shows an example of a direct area.

Directional signs on evacuation routes to tsunami evacuation together with the appropriate direction arrow, ISO 7010-E supplementary text for these signs should include the name and direction. Figure E.2 b) shows an example of a direct building.



**Seaside Park
200m Ahead**

a) Evacuation route to tsunami evacuation area



**City Hall
200m Right**

b) Evacuation route to tsunami evacuation building

Figure E.2 — Direction signing of tsunami evacuation routes examples

The sign ISO 20712-1-WSE002 should be used to identify tsunami evacuation areas. The recommended supplementary text for these signs should include the name of the tsunami evacuation area, see the example in Figure E.3 a).

The sign ISO 20712-1-WSE003 should be used to identify tsunami evacuation buildings. The recommended supplementary text for these signs should include the name of the tsunami evacuation building, see the example in Figure E.3 b).



Seaside Park

a) Tsunami evacuation area



City Hall

b) Tsunami evacuation building

Figure E.3 — Signing of tsunami evacuation areas and evacuation buildings examples

Adaptation of the international tsunami hazard signage (ISO 20712 standards) – TSUNAMI EVACUATION ZONE



Adaptation of the international tsunami hazard signage (ISO 20712 standards) – EVACUATION ROUTE



Signage implementation in the FWI

UNIVERSITÉ GREC
Géographie, Aménagement, Développement

Exploit
Tsunami - Antilles

CHARTRE GRAPHIQUE DES PANNEAUX ET DES PLANS D'ÉVACUATION « TSUNAMI » NORMALISÉS POUR LES ANTILLES FRANÇAISES

Projet EXPLOIT
« EXPLOITation et Transfert vers les collectivités des Antilles françaises d'une méthode de planification des évacuations en cas d'alerte tsunami »

Projet co-financé par la Fondation de France et piloté par l'UMR GREC (Université Paul-Valéry Montpellier 3 & IRD)

Adaptation régionale des normes ISO 20712 relatives aux signes de sécurité et drapeaux de l'eau et des plages

Février 2018

IRD Institut de Recherche pour le Développement
UNIVERSITÉ PAUL VALÉRY
LC2S Laboratoire Caribéen de Climatologie, de Climatologie et de Climatologie
FONDATION DE FRANCE

Zone à évacuer (danger)

Ce panneau signale le risque de tsunami dans la zone exposée au phénomène. Dans la mesure du possible, il doit être accolé au plan d'évacuation de la zone (cf. page suivante).

Panneau retenu

Dimensions minimales
- 280 mm
- 430 mm

Symbole graphique ISO : 20712-1:2008
Référence No : WSW014

Exemples d'équivalents à l'étranger
Nouvelle-Zélande, Tsunami Ready (USA), Chili

Description du symbole
Consignes en français et en anglais
Emplacement des logos éventuels

Zone à évacuer (danger) et plan d'évacuation

Ce panneau signale le risque de tsunami dans la zone exposée au phénomène. Il est accompagné du plan d'évacuation de la zone. Il doit être posé à proximité d'un panneau d'indication d'un itinéraire d'évacuation (cf. page suivante).

Panneau retenu

Dimensions minimales
- 410 mm
- 584 mm

Symbole graphique ISO : 20712-1:2008
Référence No : WSW014

Exemples d'équivalents à l'étranger
Etats-Unis, Japon, Japon

Description du symbole
Consignes en français
Emplacement des logos éventuels

Coordonnées GPS de l'emplacement du site
Distance à parcourir

Plan d'évacuation
Téléchargement (format A4): <https://exploit.univ-montp3.fr/4-carte-dynamique.html>
Nom du secteur cartographié
Rappel de la signalétique sur le terrain

Itinéraire d'évacuation

Ce panneau indique l'itinéraire d'évacuation optimal pour rejoindre un site refuge (zone de regroupement). Il existe en trois versions suivant le sens de la marche (droite, gauche, tout droit).

Panneau retenu

Signe ISO : ISO 20712-1:2008
Reference No : WSE002

Dimensions minimales
- 280 mm
- 350 mm

Exemples d'équivalents à l'étranger
Nouvelle-Zélande, Chili, Tsunami Ready (USA), Indonésie

Description du symbole en français
Description du symbole en anglais
Distance vers le site refuge le plus proche
Description du symbole en anglais

Site refuge

Placé au niveau du site refuge, ce panneau indique un point de rassemblement sécurisé et connu des autorités.

Panneau retenu

Dimensions minimales
- 280 mm
- 445 mm

Exemples d'équivalents à l'étranger
Nouvelle-Zélande, Chili, Tsunami Ready (USA), Indonésie

Coordonnées géographiques du site refuge
Description du symbole en français
Description du symbole en anglais
Consignes en français et en anglais
Emplacement des logos

Nom du site refuge
Code unique du site refuge pour une identification simplifiée à l'échelle communale et départementale

Information disponible fiche site refuge : <https://exploit.univ-montp3.fr/>

Download link :

https://exploit.univ-montp3.fr/data/RESSOURCES/Panneaux/Charte_panneaux.pdf

Tsunami evacuation exercise Middle School of Robert 2016



Signage implementation in the FWI



C. Jaffrézic, 2021

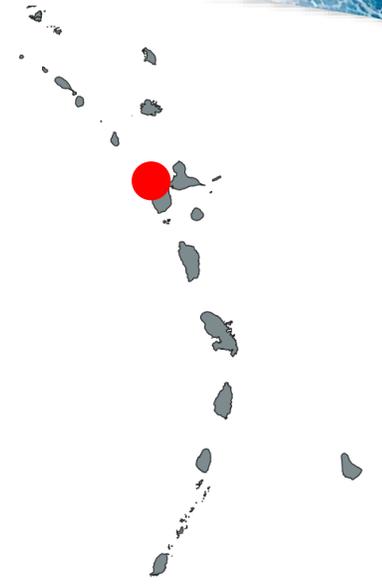
Present-day situation in FWI Guadeloupe island



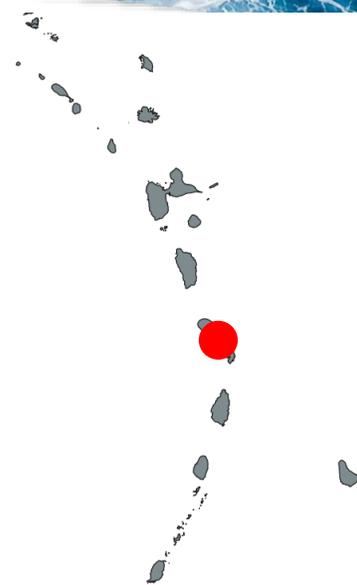
C. Jaffrézic, 2021



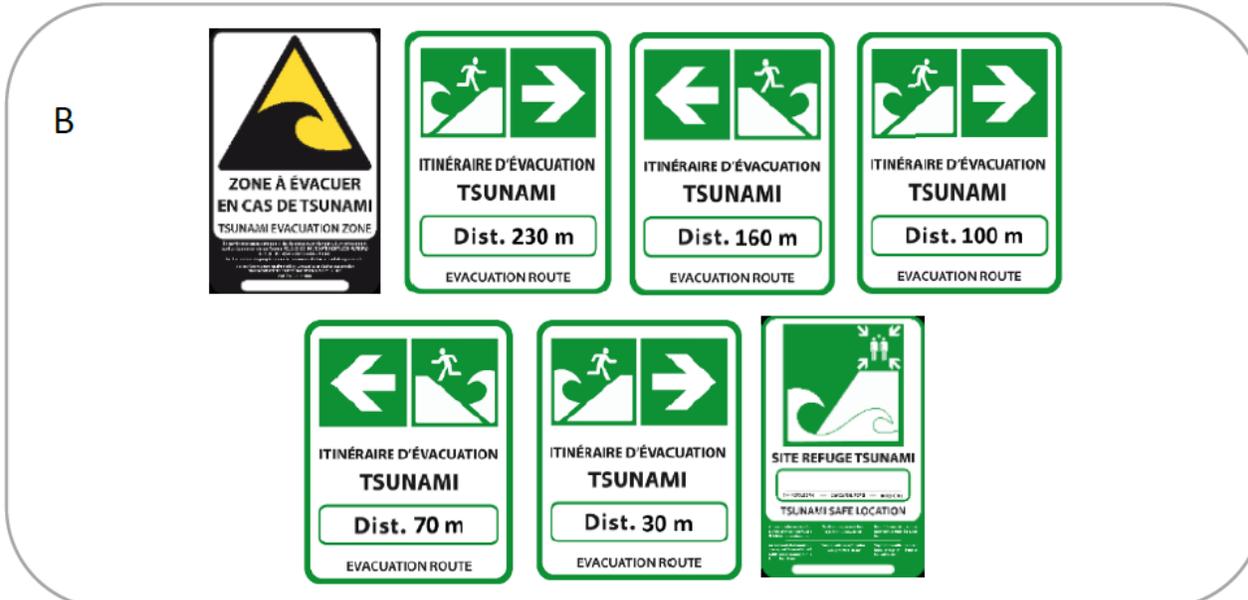
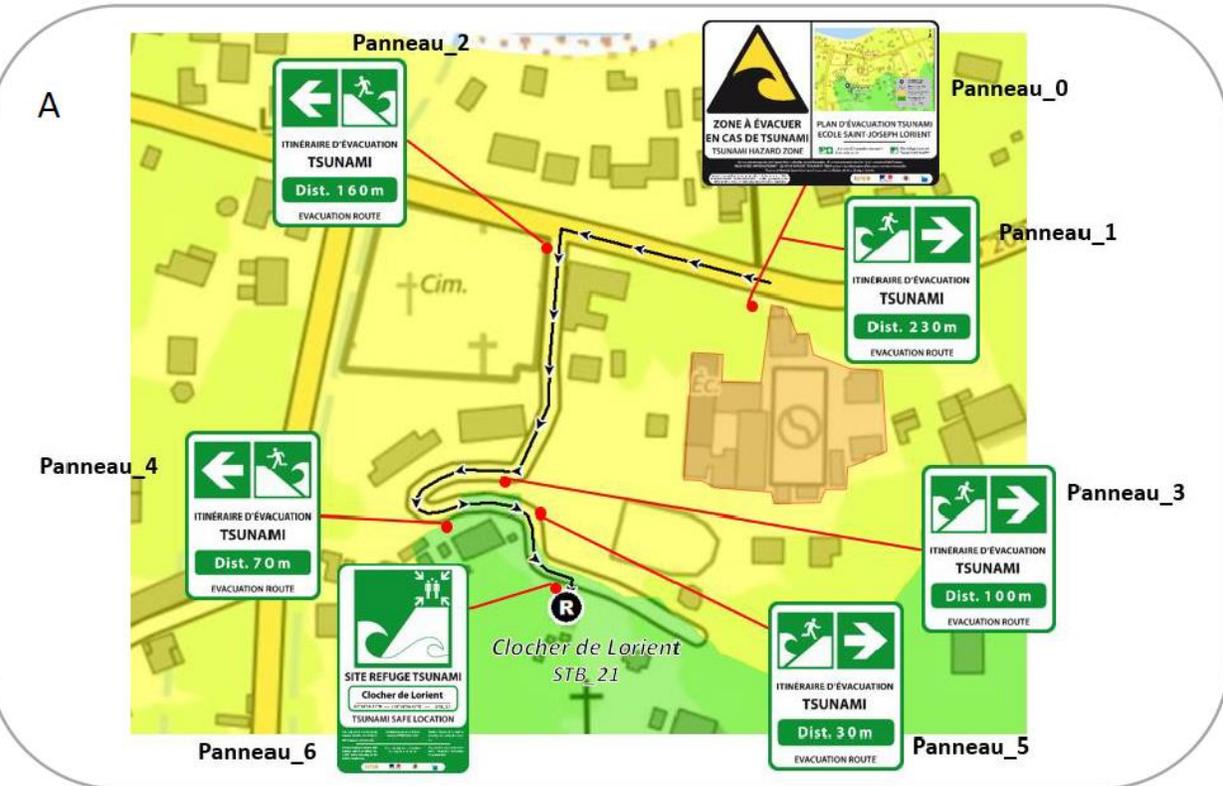
C. Jaffrézic, 2021



Signage implementation in the FWI



Present-day situation in FWI
Martinique island



Example of files issued to communes (A: plan of sign locations for an evacuation route; B: ready-to-print signs for an evacuation route)

Signage implementation in the FWI



Present-day
situation in FWI –
Saint-Barthélemy
island



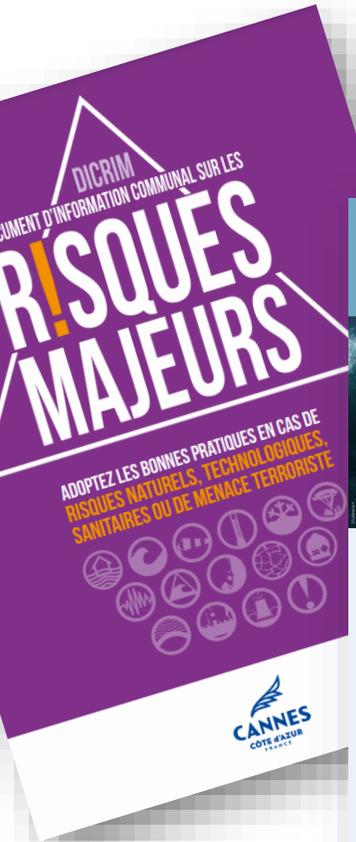
New Zealand's famous "blue line" would become "green line" in Saint Barthelemy !



Blue lines on Island Bay streets show tsunami-safe zones

Signage implementation in Cannes

- ✓ Mapping of the area to be evacuated and quantification of the main issues in this area (population, critical infrastructures, etc.)
- ✓ Identification of horizontal refuge sites and evacuation routes according to a scientific protocol adapted from work carried out in the Caribbean
- ✓ Mapping of evacuation plans according to a standardised graphic chart



TSUNAMI

Le risque tsunami à Cannes

Les côtes méditerranéennes sont exposées au risque tsunami compte tenu de l'activité sismique du bassin méditerranéen. Le risque tsunami est peu fréquent mais bien réel. Le littoral acarien a déjà été impacté par des tsunamis en 1887 (séisme Ligurie), en 1979 (glissement sous-marin à l'aéroport de Nice) et en 2003 (séisme au large de l'Algérie). À Cannes, le risque tsunami concerne principalement le gros littoral de la commune. La zone à risque est celle située à une altitude inférieure à 5 mètres par rapport au niveau de la mer et à moins de 200 mètres du rivage en zone de plaine.

La prévention du risque tsunami

La Mairie de Cannes, référence nationale en matière de prévention du risque tsunami (voir p.9) a élaboré une cartographie des itinéraires d'évacuation vers des zones refuges afin de permettre à la population située près du littoral de se mettre en sécurité dès l'alerte donnée.

Connaître les dispositifs d'alerte
 (voir page 16)

Suivre les prévisions

Le CENALT (Centre d'alerte aux tsunamis) assure la surveillance des séismes et des tsunamis pouvant survenir en Méditerranée occidentale et dans l'Atlantique Nord-Est. Le centre alerte les autorités de l'Etat en charge de la sécurité civile en cas de risque de tsunami.

Le CENALT qualifie le niveau d'alerte. Chaque niveau tient compte de la hauteur maximale de l'onde de tsunami annoncée sur les côtes méditerranéennes.

LES BONS RÉFLEXES

Avant

- Soyez attentifs à certains critères précurseurs si vous résidez dans une zone côtière :
 - Si un tremblement de terre important vient d'avoir lieu (secousses passantes ou prolongées)
 - Si vous constatez une évolution anormale et rapide du niveau de la mer
 - Un bruit sourd et inhabituel
- Ne restez surtout pas dans les zones proches de la côte et soyez attentif à un éventuel message d'alerte tsunami
- Préparez-vous en identifiant un endroit où il sera possible de vous mettre à l'abri
- Préparez l'équipement nécessaire (médicaments, papiers d'identité, temps de poche, etc.) à intégrer dans le kit d'urgence

Pendant

Prenez soin de vous :

- Dès l'alerte émise (haut-parleurs, SMS, sirènes...), éloignez-vous le plus tôt possible des côtes ou essayez d'atteindre un promontoire pour être épargné
- Ne descendez jamais sur la plage pour observer un tsunami
- Ne prenez la mer sous aucun prétexte
- Ne téléphonez qu'en cas d'urgence vitale, pour laisser les secours disposer au mieux des réseaux téléphoniques
- Grimpez sur le toit d'une habitation ou la cime d'un arbre solide. En dernier recours accrochez-vous à un objet faisant que le tsunami chavire
- Respectez les consignes des autorités

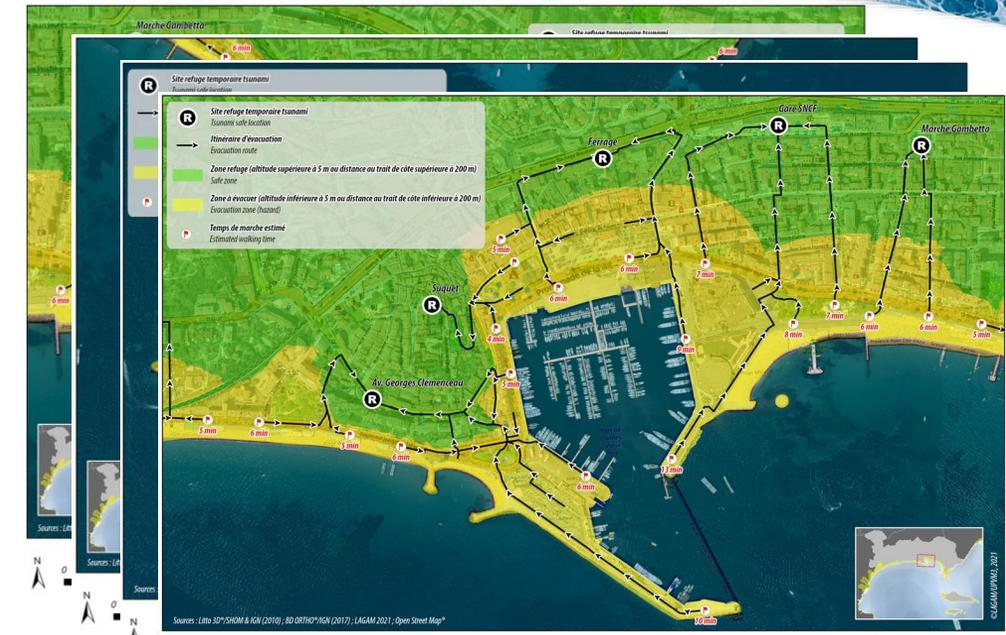
Si vous êtes en mer :

- Si un avertissement de tsunami est publié, ne retournez pas au port

Après

- Restez hors de la zone dangereuse tant qu'un avis de retour à une situation normale n'a pas été émis par les autorités
- Si vous êtes en mer, restez à l'écoute des autorités pour vous assurer que les conditions d'un retour au port sont favorables
- Avant d'utiliser l'eau du robinet pour des usages alimentaires (boisson, préparation des aliments, cuisson...), assurez-vous, auprès des autorités locales ou d'un spécialiste, et dans tous les cas, faites couler l'eau afin de nettoyer le réseau et d'évacuer l'eau qui a stagné

Extract of an evacuation plan – (2021)



PLAN D'ÉVACUATION TSUNAMI - TSUNAMI EVACUATION PLAN
 Secteur du Vieux port



Interactive version of evacuation plan

Sites refuges et itinéraires d'évacuation en cas de tsunami

<https://arcg.is/1jKcV50>

Signage implementation in Cannes

✓ Suggested signage to be installed along evacuation routes



Tested signage (ground paint), august 2020



Information and public survey stand, august 2020



Different supports and materials

Signage implementation in Cannes



Signage implementation in Cannes



Signage implementation in Cannes



Some key steps

- Identify the location of evacuation signage based on existing evacuation plans



PLAN D'ÉVACUATION TSUNAMI - TSUNAMI EVACUATION PLAN
Secteur du Vieux port

Some key steps

- Identify the location of evacuation signage based on existing evacuation plans
- Produce a photographic report of the signage location

Vue aérienne



Type de signalétique

| Modèle de macaron | Nom du site refuge | Distance (m) |
|---|--------------------|------------------|
|  | Bd de la Source | Distance : 450 m |

1

Vue Street View



Légende

- Point d'implantation (Point GPS : 43.543404,7.042216)
- Orientation de la flèche sur le macaron

Some key steps

- Identify the location of evacuation signage based on existing evacuation plans
- Produce a photographic report of the signage location
- Produce maps showing the signage locations



Some key steps

- Identify the location of evacuation signage based on existing evacuation plans
- Produce a photographic report of the signage location
- Produce maps showing the signage locations
- Draft the technical file / the mock-ups for the selected company.

| | | | | |
|--|--|--|-------------------------|--------------------------------|
| LACROIX Infographie - Signalétique | | Représentant / Client Chargé d'affaires: NOÉMIE LORENZETTO | Dossier: 2067450 | PAGE: 2 |
| Commentaires: | | GAMME: RN7 (FA) | Adhésifs: | PROCESS: Imp. Num. N.C. |
| | | TAILLE: 100 x 150 mm | Dim. d'imp. sur: | 100 x 150 mm |
| | | CLASSE DE FILM: Classe 1 | ÉCORS: | 0 ÉCORS |
| | | LAQUAGE DOSEXT: - | PROTECTION: | PROTECTION |



QUANTITÉ : 300



QUANTITÉ : 60



QUANTITÉ : 60

| | | | |
|-----------------|---|---------------------|--|
| DATE: 9/05/2022 | IMPORTANT : Votre signature nous engage. Refusez toute copie non lue. En cas d'erreur après bon à tirer, notre responsabilité est entièrement déniée. Seul le bon à tirer signé par vous, le travail ne pourra être poursuivi. Un bon à tirer signé électroniquement est accepté si vous le précédez de votre signature manuscrite et de votre nom et prénom. | DATE: 9/05/22 | BON POUR ACCORD (à nous retourner) |
| ÉCHELLE: 30 % | | NOM: FERRAND | SIGNATURE:  |
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| | | |
|---|--|-------------------------|
| InterSignal InterSignal sdn bhd sdn bhd | | Date: 16 mai 2022 |
| 20, rue Fontenay - 33100 FORMANET Tél : 03 69 36 34 31 - Fax : 03 69 36 34 23 83 Site: www.intersignal.fr - Email: contact@intersignal.fr | | Dossier: RNF SAS |
| | | Dessins n°: 001 |

Avenue des Pins

Quantité : 1



Quantité : 1



Quantité : 2



Quantité : 3



| | | | |
|------------------|---|---------------------|--|
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| ÉCHELLE: 7 % | | NOM: FERRAND | SIGNATURE:  |
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|--|--|--|-------------------------|--------------------------------|
| LACROIX Infographie - Signalétique | | Représentant / Client Chargé d'affaires: NOÉMIE LORENZETTO | Dossier: 2069875 | PAGE: 2 |
| Commentaires: | | GAMME: RN7 (FA) | Adhésifs: | PROCESS: Imp. Num. N.C. |
| | | TAILLE: 600 x 900 mm | Dim. d'imp. sur: | 593 x 899 mm |
| | | CLASSE DE FILM: CLL | ÉCORS: | 0 ÉCORS |
| | | LAQUAGE DOSEXT: - | PROTECTION: | PROTECTION |

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QUANTITÉ : 5

1 de chaque

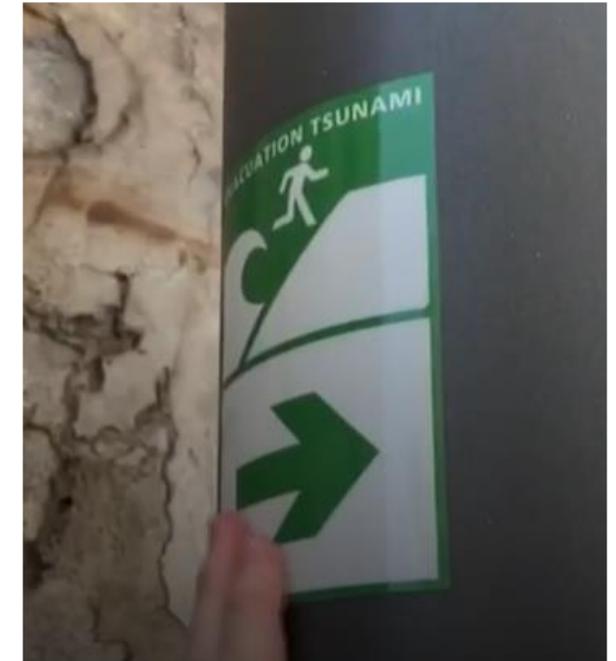
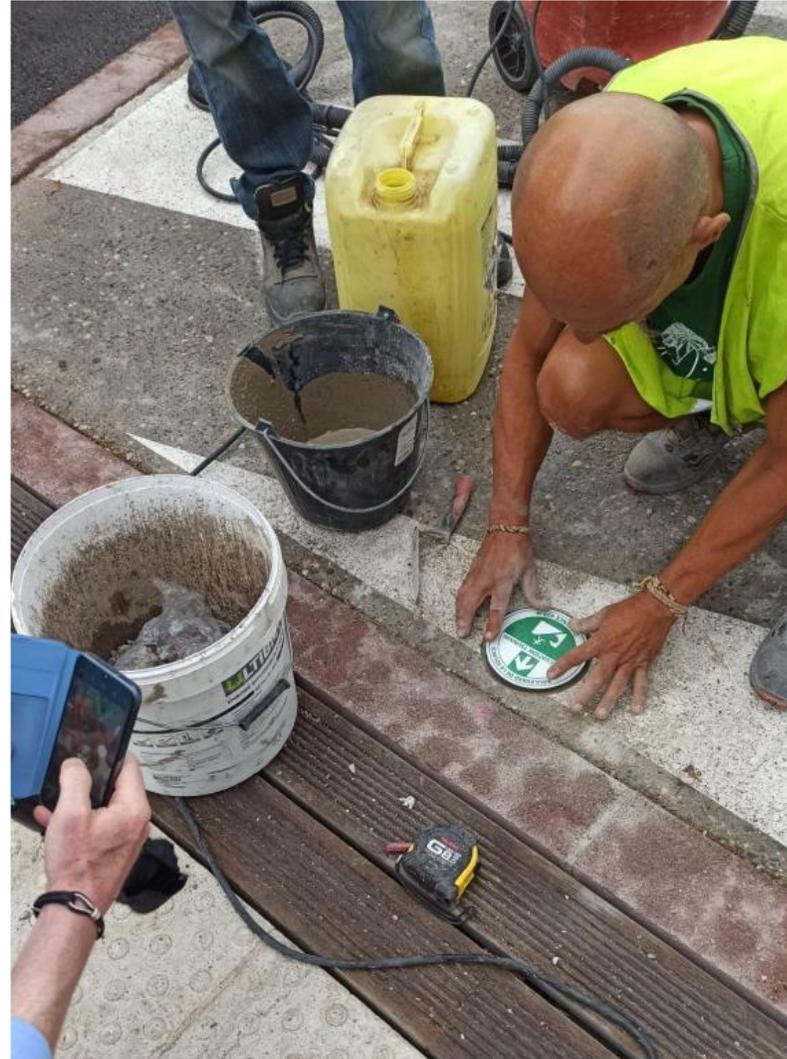
| | | | |
|------------------|---|---------------------|--|
| DATE: 17/05/2022 | IMPORTANT : Votre signature nous engage. Refusez toute copie non lue. En cas d'erreur après bon à tirer, notre responsabilité est entièrement déniée. Seul le bon à tirer signé par vous, le travail ne pourra être poursuivi. Un bon à tirer signé électroniquement est accepté si vous le précédez de votre signature manuscrite et de votre nom et prénom. | DATE: 17/05/22 | BON POUR ACCORD (à nous retourner) |
| ÉCHELLE: 7 % | | NOM: FERRAND | SIGNATURE:  |
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Some key steps

- Identify the location of evacuation signage based on existing evacuation plans
- Produce a photographic report of the signage location
- Produce maps showing the signage locations
- Draft the technical file / the mock-ups for the selected company.
- Guide the company on site for installation



Some key steps

- Identify the location of evacuation signage based on existing evacuation plans
- Produce a photographic report of the signage location
- Produce maps showing the signage locations
- Draft the technical file / the mock-ups for the selected company.
- Guide the company on site for installation
- Map the installed signage

Signalétique d'évacuation tsunami
Zone refuge : Boulevard de la Source

Légende

- Zone à risque tsunami
- Zone refuge
- Site refuge
- Itinéraires d'évacuation tsunami
- Macaron lave émaillée avec indication zone refuge et distance
- Macaron lave émaillée simple
- Panneau zone refuge

Some key steps

- Identify the location of evacuation signage based on existing evacuation plans
- Produce a photographic report of the signage location
- Produce maps showing the signage locations
- Draft the technical file / the mock-ups for the selected company.
- Guide the company on site for installation
- Map the installed signage
- Communicate to media



Of all the criteria to be recognized as IOC-UNESCO Tsunami Ready, the installation of tsunami signage is the most difficult:

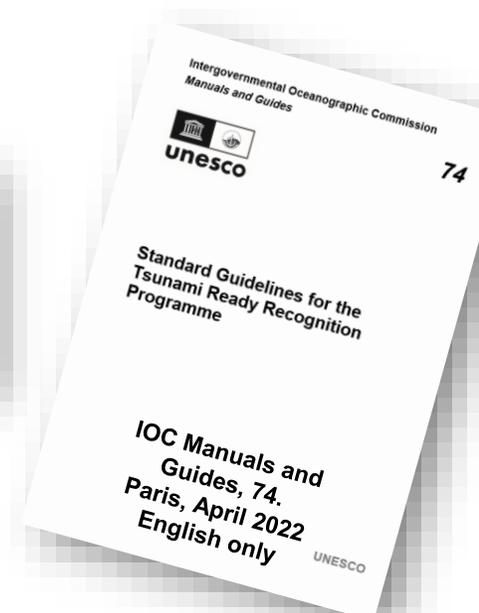
- Signage and its installation are costly
- Signage materializes the spatial extent of the risk
- Signage requires several levels of approval (administrative, financial, legal, etc.), and the process can be lengthy.

| II | PREPAREDNESS (PREP) |
|----|--|
| 4 | PREP-1. Easily understood tsunami evacuation maps are approved. |
| 5 | PREP-2. Tsunami information including signage is publicly displayed. |
| 6 | PREP-3. Outreach and public awareness and education resources are available and distributed. |
| 7 | PREP-4. Outreach or educational activities are held at least three times a year. |
| 8 | PREP-5: A community tsunami exercise is conducted at least every two years. |

Two French experiences:

#1 Importance of following the pictograms and colors proposed by the ISO standard to create a national standard.

#2 Allow some flexibility in the choice of signage supports and materials to encourage stakeholders to adopt the system.



MERCI

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