

高潮・津波対策の強化～課題と今後の取り組み～

Reinforcement of Countermeasures Against Coastal Disasters due to Storm Surge and Tsunami

近年、我が国では、高潮被害が多発する傾向にあります。^{注1} また、地震に伴う巨大な津波の発生も切迫しています。^{注2} こうした状況のもと、約98兆円の資産を有する港湾^{注3}とその背後地域を防護する対策を強化することが必要です。

注1: 気象庁資料 注2: 中央防災会議資料 注3: 国土交通省港湾局による試算値

Storm surge disasters strike coastal areas of Japan more frequently in recent years. ^{*1} In addition, It is expected that tsunami will strike the coastal area due to large earthquake. ^{*2} Ports and harbors have assets of ¥98 trillion in their areas, ^{*3} it is therefore important to reinforce countermeasures against such disasters in ports, harbors and their neighboring coast areas.

^{*1}: Japan Meteorological Agency (JMA) ^{*2}: Central Disaster Management Council, Cabinet Office, Government of Japan
^{*3}: Ports and Harbors Bureau, Ministry of Land, Infrastructure and Transport (MLIT)

■高潮、津波等に対する港湾施設・海岸施設の設計条件の設定に関する検討

Designing Port Facilities and Shore Protection Facilities with Consideration for Storm Surge and Tsunami

既往最高潮位に基づく設計
Designing port facilities and shore protection facilities with consideration for the H.H.W.L in an area

モデル台風による予測潮位に基づく設計
Designing with consideration for an estimated sea-level in an area



高潮を考慮した港湾施設等設計条件の設定に係る検討
Studies on the modification of design methodology for port and shore protection facilities

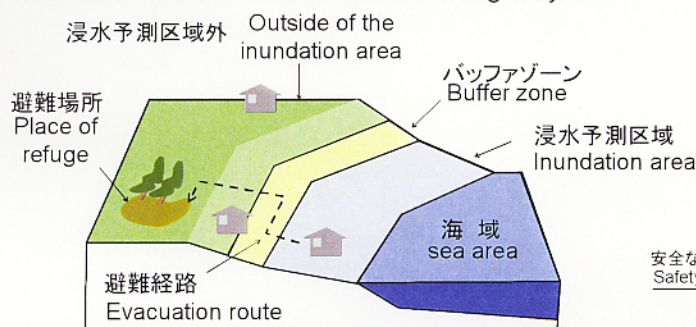
高潮による市街地の浸水状況（香川県高松市，2004年）
Houses inundated with seawater due to storm surge (Takamatsu, Kagawa Pref., 2004)

■地方公共団体等と連携した減災対策に関する検討

Studies on Mitigation of Coastal Disasters due to Storm Surge and Tsunami

・津波・高潮ハザードマップの活用・高度化の取り組み

Studies on a further utilized and technologically advanced 'Hazard Map'



ハザードマップにおける浸水予測区域等のイメージ
Inundation area and evacuation route in 'Hazard Map'



安全な避難経路及び遮断要因のイメージ
Safety evacuation route and its factors

・災害時の住民への確実な情報提供、適切な避難勧告、避難困難者対策等の検討

Studies on the communication between the administration and the inhabitants, the methodology of evacuation advisory, and safety evacuation for persons who need help.



国土交通省 国土技術政策総合研究所 沿岸海洋研究部 沿岸防災研究室

Coastal Disaster Prevention Division, Coastal and Marine Department,
National Institute for Land and Infrastructure Management (NILIM)

3-1-1 NAGASE, YOKOSUKA, KANAGAWA, 239-0826, JAPAN PHONE +81-46-844-5006 FACSIMILE +81-46-844-5068
URL <http://www.nilim.go.jp>