

FEATURES

~Protection of Japanese logistics from large-scale disasters; featuring efforts of top three bays~

The Great East Japan Earthquake hit all the ports from Aomori prefecture to Ibaraki prefecture along the eastern coastline of Tohoku district and stopped the regional sea transportation thoroughly. However, thanks to the efforts of those concerned with opening work of sea routes and port facility restorations, ocean logistics came back without much delay, which contributed to regional restoration, and we remember the fact clearly.

On the other hand, considering possible occurrence of disasters such as Nankai Trough Quake and its related tsunami, it's indispensable for us to be more proactive against them for our industry survival.

The feature of this month introduces the national resilience plans promoted by all-out efforts of the government and the amendment of Port and Harbor Act highlighting measures to restore ports promptly in case of emergency, having reviewed measures taken against the Great East Japan Earthquake. In addition, this feature introduces the frontline of actual activities of disaster prevention and mitigation to maintain sea transportation which is to assist our industry even in the event of disasters.

■ *SPECIAL ESSAY*

The significance of the estimation of damage caused by the Nankai Trough Quake and its related tsunami from the viewpoint of functions / Atsushi Tanaka

■ *panel discussion*

The task and role of sea transportation to materialize the national resilience plans.

/ Satoshi Fujii/Takujiro Miyamoto/Shigeo Takahashi/Takashi Owaki

■ *lessons from the Great East Japan Earthquake and measures taken at the top three bay areas*

<sea routes>

Measures against maritime disaster at the time of the Great Earthquake

/ Takahiro Hagihara

Measures against lateral flow of soils near seawall at petrochemical complex

/ Masayuki Tue

Amendment of port and harbour Act and measures taken at the top three bay areas

/ Tatsuya Nagayama

<berthing facilities and so on>

Vulnerability Tokyo Bay logistics facility revealed by the Great Earthquake

/ Shinji Sasa

Measures against earthquake and tsunami at Tokyo Bay

/ Haruka Hasegawa /Yuichi Nakamura

<cargo handling area ~ wharf>

The Great Earthquake's tsunami damages at Shiogama Warehouse Co.Ltd.

/ Atsushi Tashiro

Employees' evacuation at the time of The Great Earthquake and future problems
to solve

/ Masato Araki

Tsunami protection measures at Port of Osaka

/ Planning Department, Planning & Construction Division, Port &
Harbor Bureau, City of Osaka

Evacuation measures for corporate employees at Kasumigaura district, Port of
Yokkaichi

/ Norio Okada

<Cooperation among those involved in restoration of port functions>

The current status of a committee on earthquake and tsunami protection measures
at Osaka Bay

/ Yoshiki Takaoka