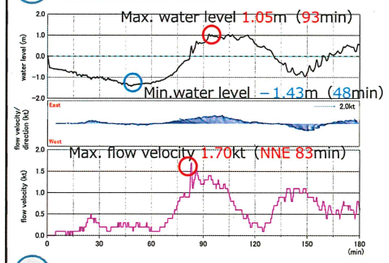
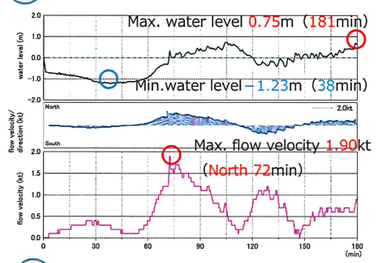
## Caution points to note when referring to TSUNAMI GRAPH

- The TSUNAMI GRAPH shown in this map shows **the changes in water level, flow velocity and flow direction immediately after an earthquake from the time of occurrence to 180 minutes.**
- In the tsunami simulation, **the tidal current is not considered**. Therefore, when the tidal wave flow and tidal current direction are the same, there is a possibility that the flow velocity becomes faster than shown in the TSUNAMI GRAPH, and in the case of the reverse direction, a vortex or the like is generated and there is a possibility of a complicated flow.

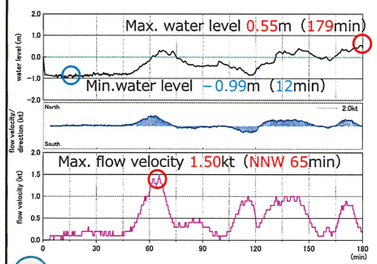
### 1 Off NAGOYA-Ko



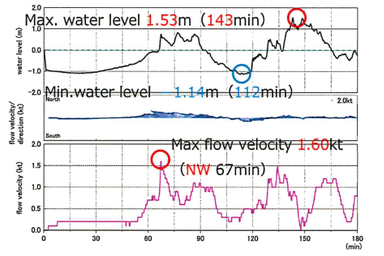

### 2 Off YOKKAICHI-Ko



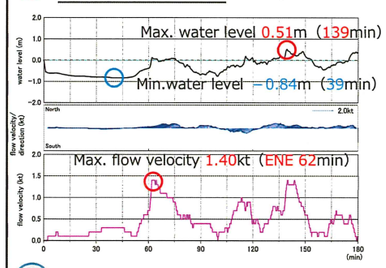

### 3 Off KINUURA-Ko



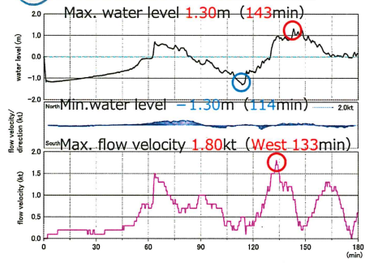

### 4 The Central part of ISEWAN



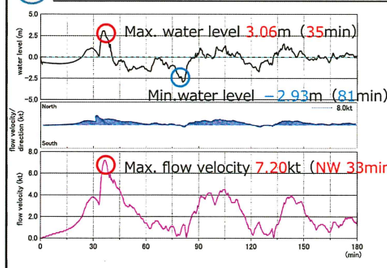

### 5 Off MIKAWA-Ko




### 6 Off TSU MATSUSAKA-Ko

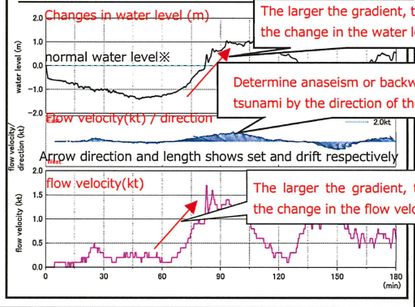



### 7 Center of IRAGO SUIDO TRAFFIC ROUTE




※Scale on the vertical axis is different from other TSUNAMI GRAPHs.

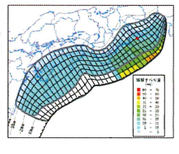
### How to read a TSUNAMI GRAPH




**Fault model:** "Suruga Bay – off the Kii Peninsula" "large slip zone + super large slip" "(Case ① )

| | |
|---|---|
| Fault area S (km²) | 140,000 |
| Earthquake moment Mo (N·m) | $6.1 \times 10^{22}$ |
| Average slip amount D (m) | 10.3 |
| Moment magnitude Mw | 9.1 |

This fault model was announced by the government "Nankai Trough's Great Seismic Model Review Committee (Second Report)" announced on August 29, 2012). In the fault model we used, we selected a model with the largest flooded area in the area of this figure from the 11 cases published by the Cabinet Office.



# Tsunami Response Information Map for Ships in ISEWAN Region

- : Preferred Evacuation Area
  (Depth 10 meters or more and flow velocity less than 2 knots)
  ※At the evacuation area, it is premised to maneuver by using engine, e.g. "Lie-to".
  Part of the preferred evacuation area within Yokkaichi Port was prepared based on "Max Flow Velocity Map in Yokkaichi Port ".
- : Evacuation Route

- This map can be used by evacuating ships to select an evacuation site at the time of tsunami.
- The items described in this map are summaries of recommendations made by the Special Expert Committee on the Survey on Ship Tsunami in Ise Bay by The Isewan Marine Safety Association.

**Depth in Meters**
5m : 10m : 15m : 20m : 30m :

YOKKAICHI-Ko (72 minutes)
NAGOYA-Ko (81 minutes)
KINUURA-Ko (63 minutes)
TSU-Ko (66 minutes)
MIKAWA-Ko (66 minutes)
MATSUSAKA-Ko (63 minutes)
TOBA-Ko (21 minutes)

Harbour Limit

Because evacuation vessels concentrate in Yokkaichi port area, if you have time to spare, evacuate to a preferred evacuation area on the south side.

As far as possible escape away from the gateway entrance and evacuate.

- If you are already in a position to leave the bay and you can leave the traffic route before the impact of the tsunami becomes big, you leave.
- Priority is given to exiting the bay, avoid entry.
- Japan Coast Guard sometimes carries out entry restrictions based on the Maritime Traffic Safety Act.

Isewan No. 6 Buoy
Isewan No. 5 Buoy
Isewan No. 4 Beacon
Isewan No. 3 Buoy
Isewan No. 2 Buoy
Isewan No. 1 Buoy

0km 5km 10km 20km
0NM 5NM 10NM

The time shown under the port name indicates the time when the rise in water level due to the tsunami reaches 10 cm from the occurrence of the earthquake, which is shown in the "Tsunami arrival time map (wide area of Ise Bay)" in the port area.

Modify Chart W1051. Not for Navigation.

Prepared by The Isewan Marine Safety Association.(2018)