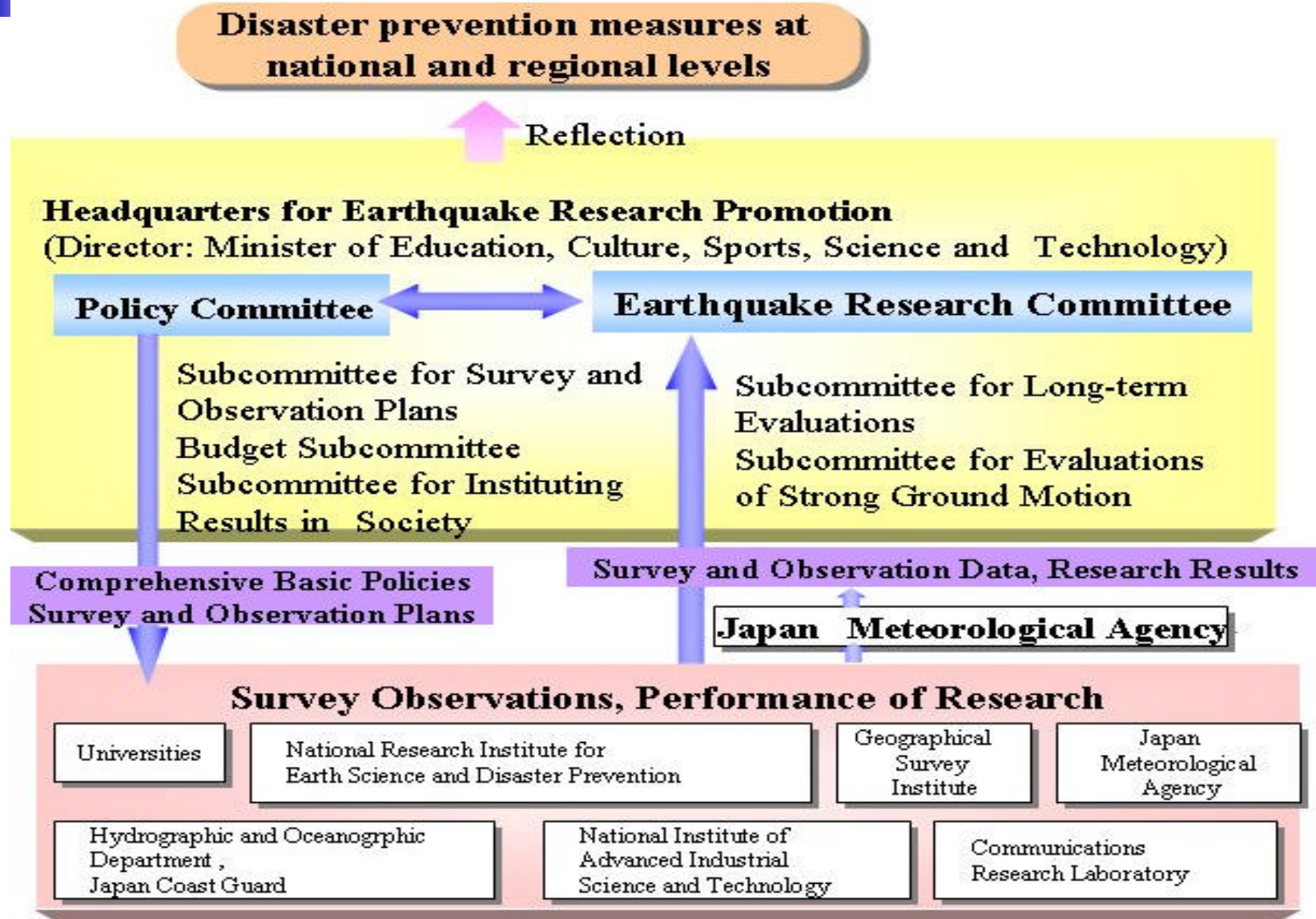


The Current Activities of the Headquarters for Earthquake Research Promotion Concerning Tonankai/Nankai Earthquakes

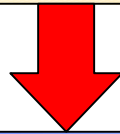
ISOGAI Keisuke
Director of Earthquake Research Division,
Research and Development Bureau,
Ministry of Education, Culture, Sports, Science and Technology
(MEXT)
November 6, 2002

Organization of the Headquarters for Earthquake Research Promotion



Basic Policy –Seismic Hazard Map

Probabilistic Seismic Hazard Map



The predicted likelihood of a strong ground motion occurring in a given area within a set period of time.

- The Earthquake Research Committee is planning to create a "General Seismic Hazard Map covering the whole of Japan" by 2005.

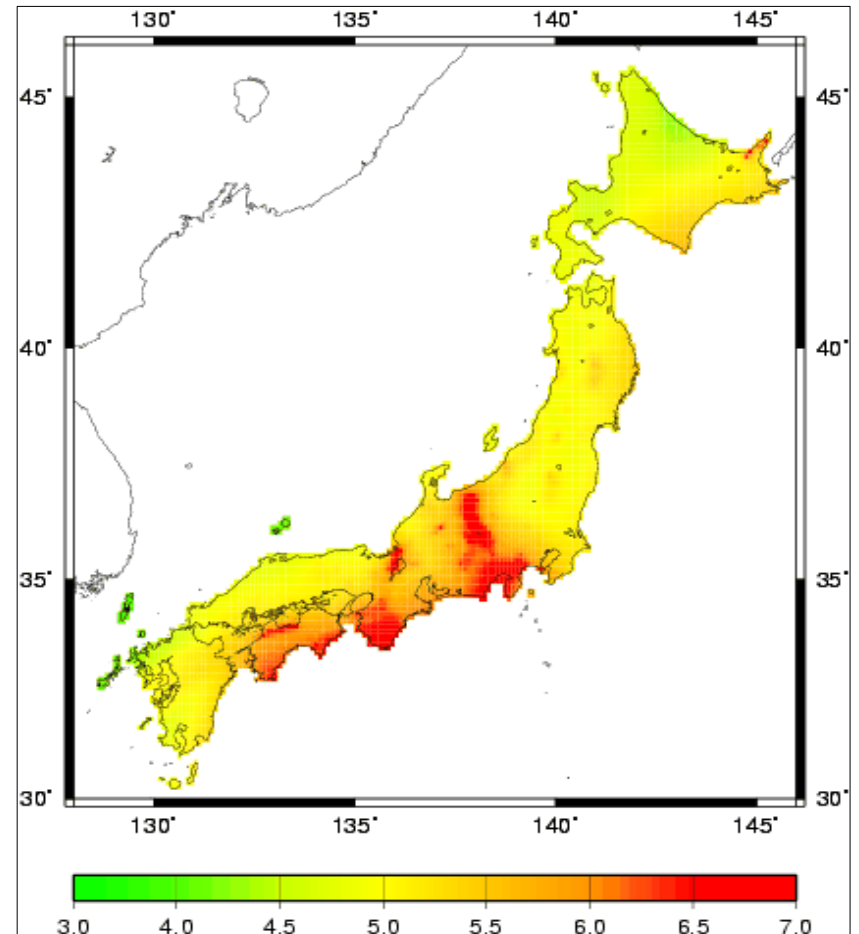
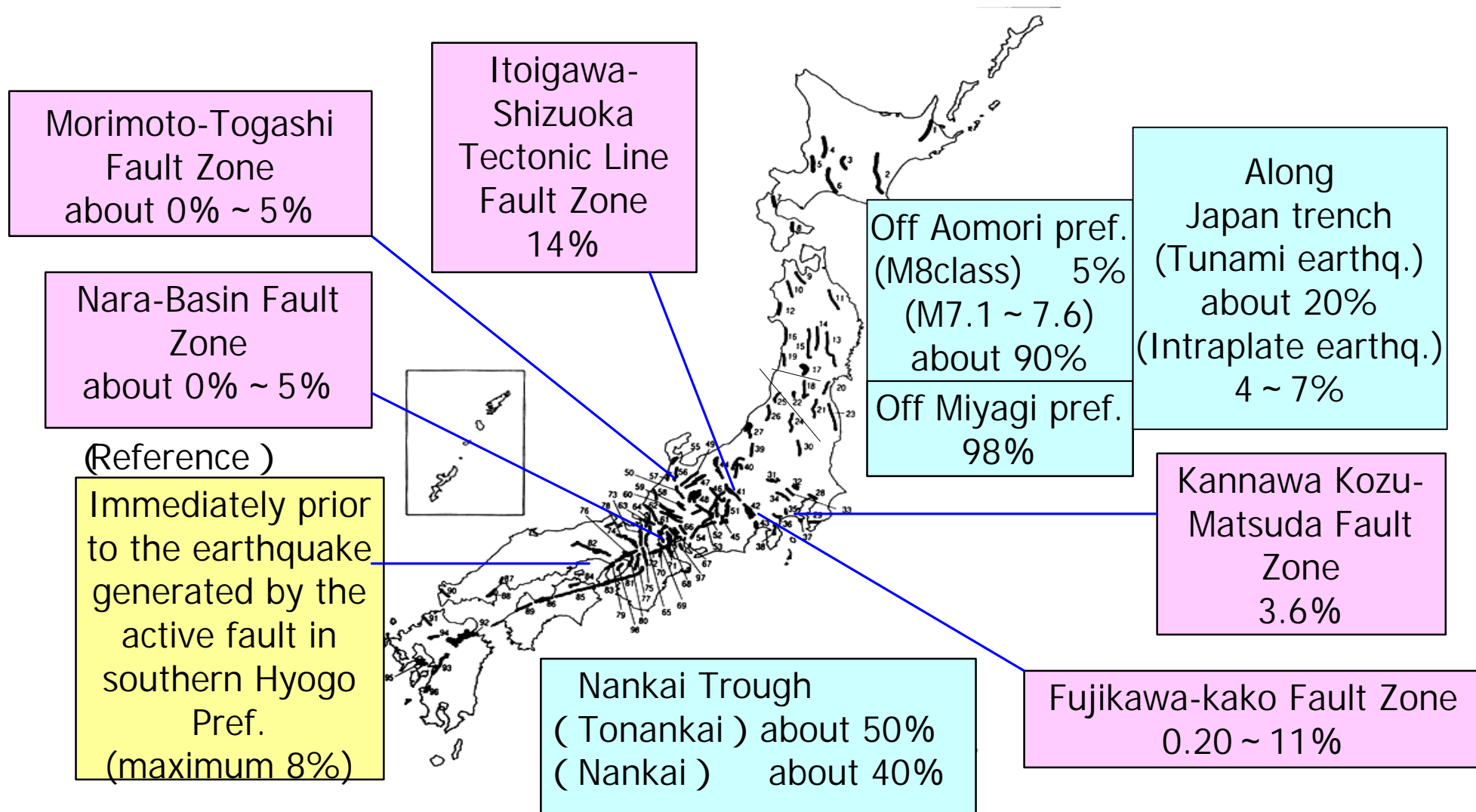


Image of Seismic Hazard Map

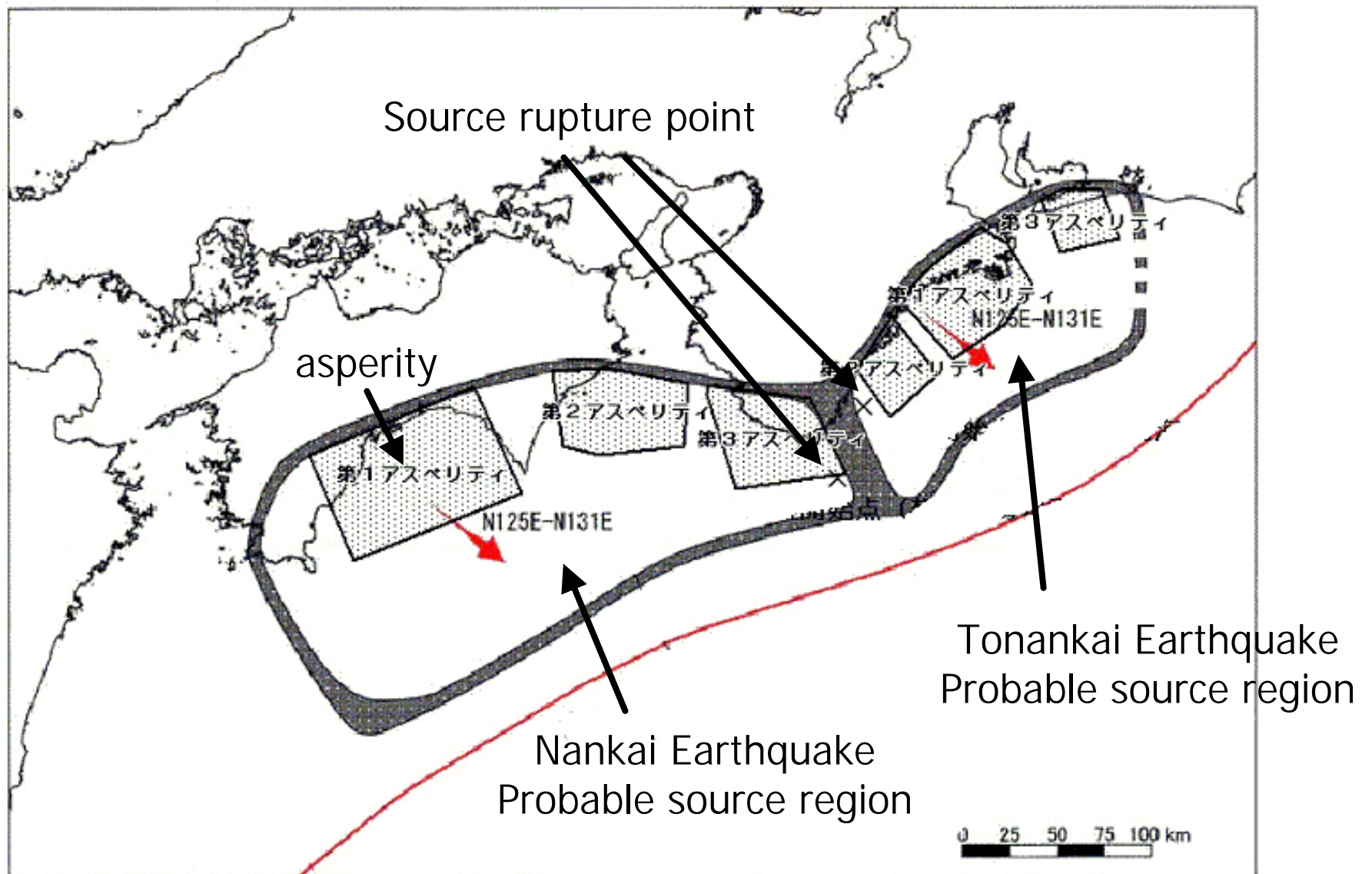
Major fault zones and surrounding sea regions in evaluations announced to date (Probabilities of large-scale earthquakes over the next thirty years)



Long-term evaluation of Tonankai/Nankai earthquakes

| Earthquake | Evaluated Magunitude | | Evaluated Occurrence Probability | | | (Upper) Evaluated recurrence interval (Lower) Elapsed time from the latest event |
|------------|----------------------|---------------------|----------------------------------|-----------------------|-----------------------|---|
| | | | Within 10 years | Within 30 years | Within 50 years | |
| Nankai | About 8.4 | At the same time | Less than 10% | About 40% | About 80% | 90.1 years |
| | | | | | | 54.0 years |
| Tonankai | About 8.1 | About 8.5 | About 10% | About 50% | 80 ~ 90% | 86.4years |
| | | | | | | 56.1years |

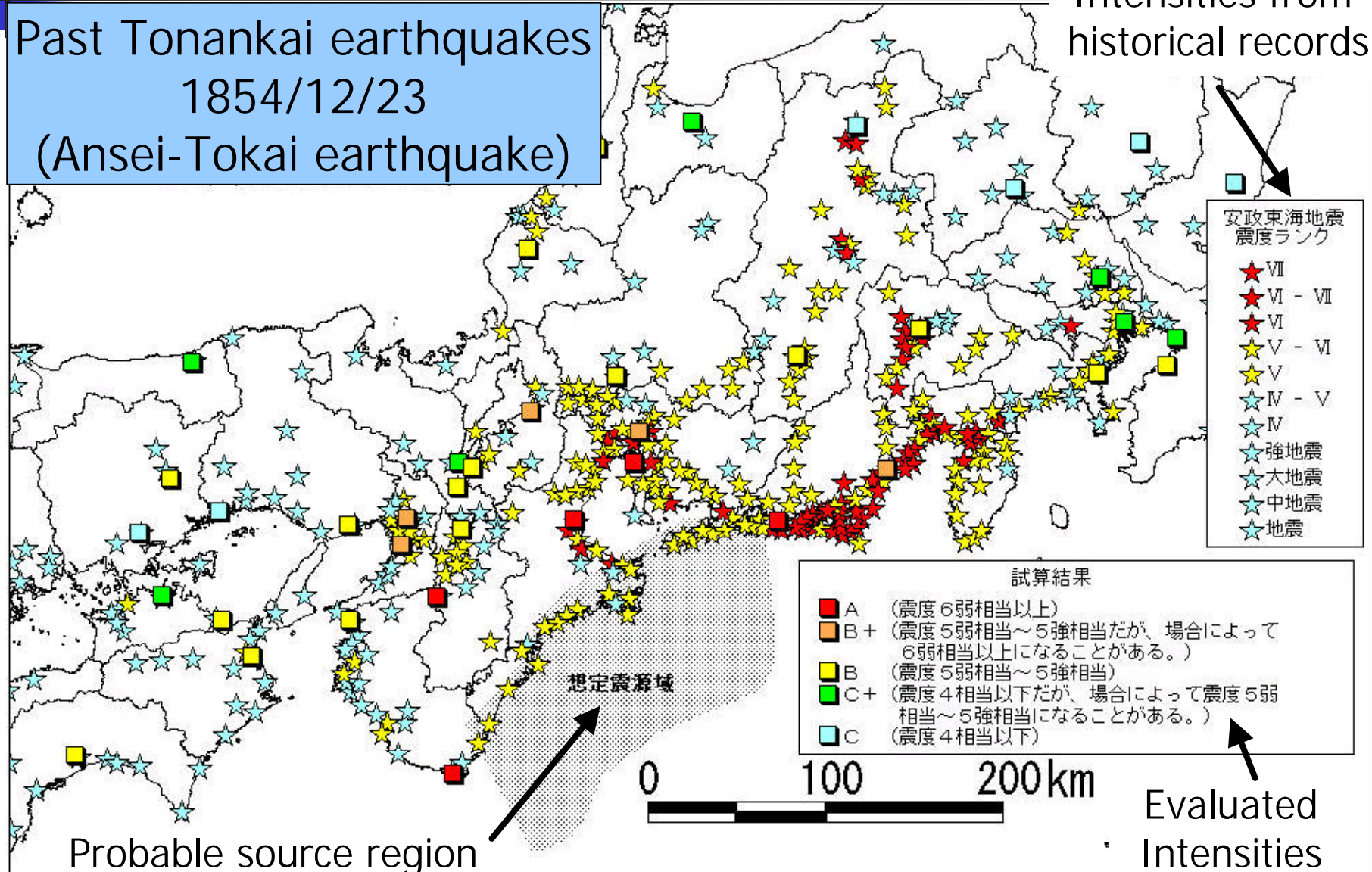
Evaluation of strong ground motion of the Tonankai/Nankai earthquakes



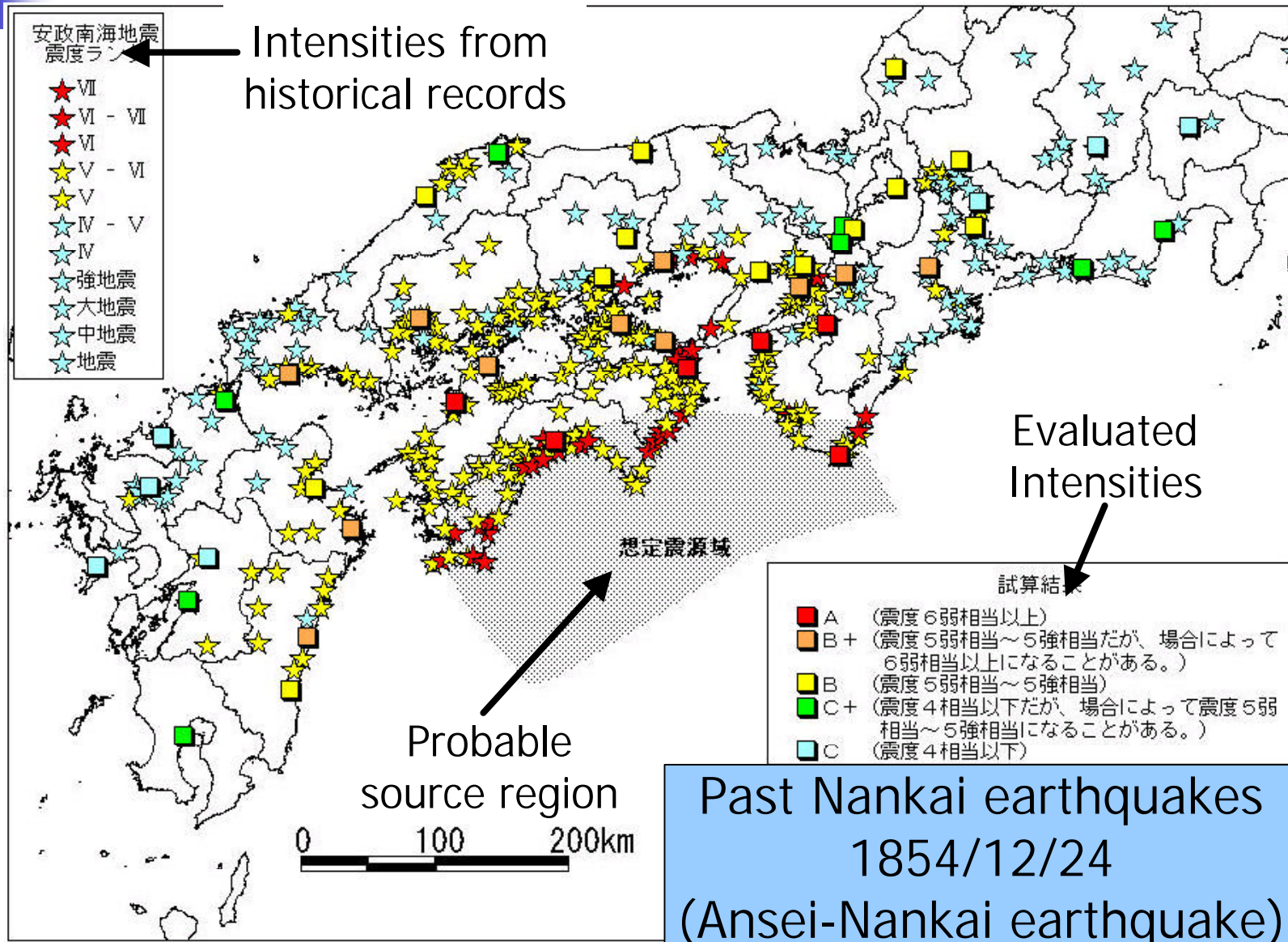
Evaluation of strong ground motion of the Tonankai earthquakes

Past Tonankai earthquakes
1854/12/23
(Ansei-Tokai earthquake)

Intensities from historical records



Evaluation of strong ground motion of the Nankai earthquakes



The enhancement of survey and observation for the possible Tonankai/Nankai earthquakes

Details

August, 2001 (The Headquarters for Earthquake Research Promotion –The review of the fundamental earthquake survey and observation plans and the establishment of a focused survey and observation system –)

The system for survey and observation of the earthquakes in the Nankai trough, which is considered as a focused area, should be examined.

September, 2001 (The Earthquake Research Committee)
Long-term evaluation of earthquakes in the Nankai trough was announced.

December, 2001 (The Subcommittee for Evaluations of Strong Ground Motion under the Earthquake Research Committee)

Strong ground motion evaluation methods for projected earthquakes in the Nankai trough was announced.

The Subcommittee for Survey and Observation Plans (under the Headquarters for Earthquake Research Promotion)

April, 2002 the examination for the plan was launched (to be expected to report in March, 2003)

The plan for the enhancement of survey and observation of the possible Tonankai/Nankai earthquakes

【PURPOSE】

- Improvement of the long-term evaluation
- Improvement of the evaluation of the strong ground motion



Government's Proposed Budget for FY2003 related to the enhancement of survey and observation of the possible Tonankai/Nankai earthquakes

Ministry of Education, Culture, Sports, Science and Technology 450 million yen

•Observation research for the improvement in the evaluation of the Tonankai/Nankai earthquakes

Ministry of Land, Infrastructure and Transport 627 million yen

<Geographical Survey Institute> 196million yen

•The enhancement of observations of crustal deformation concerning the Tonankai/Nankai earthquakes

•The research for the characteristics of the crustal deformation concerning Tonankai/Nankai earthquakes

<Japan Meteorological Agency> 151million yen

•The enhancement of the observation system for possible Tonankai/Nankai earthquakes

<Japan Coast Guard> 280million yen

•The enhancement of the disaster risk management of the Tonankai/Nankai earthquakes

Ministry of Economy, Trade and Industry (within subsidy for operation)

<The National Institute of Advanced Industrial Science and Technology>

•The establishment of the observation well network for the earthquake prediction research