

Japan's approach to scientifically promote the establishment of protected areas

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Establishment of protected areas

- ▶ increase the areas
- ▶ conserve areas of particular importance for biodiversity

Terrestrial and coast

Comprehensive survey on national and quasi-national parks (2007–2010)

Marine

Selection of important marine areas (2011–2013)

Comprehensive survey on national and quasi-national parks (2007–2010)

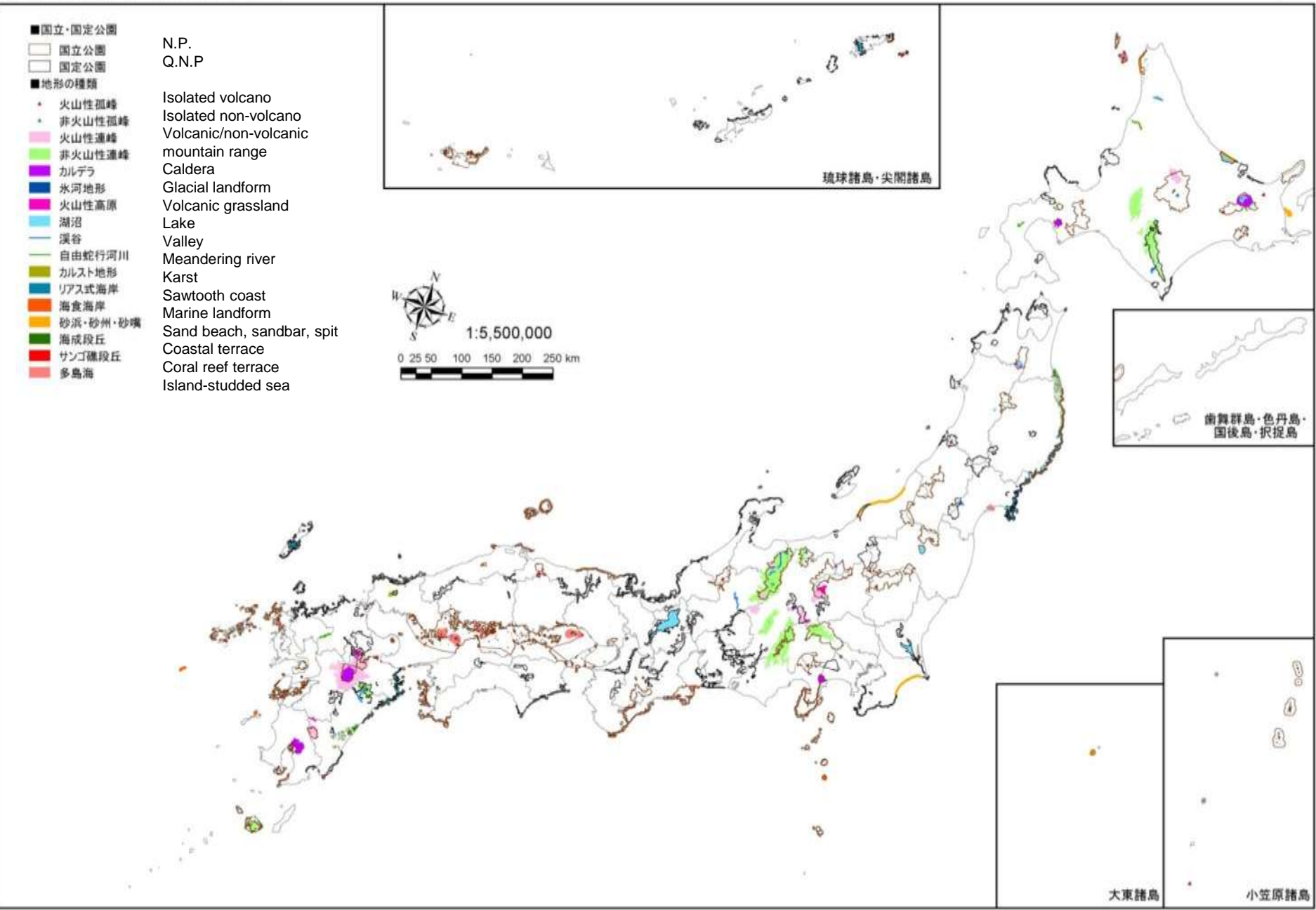
- ▶ National Park: Designated and managed by MOE
- ▶ Quasi-national Park: Designated by MOE, managed by prefectures



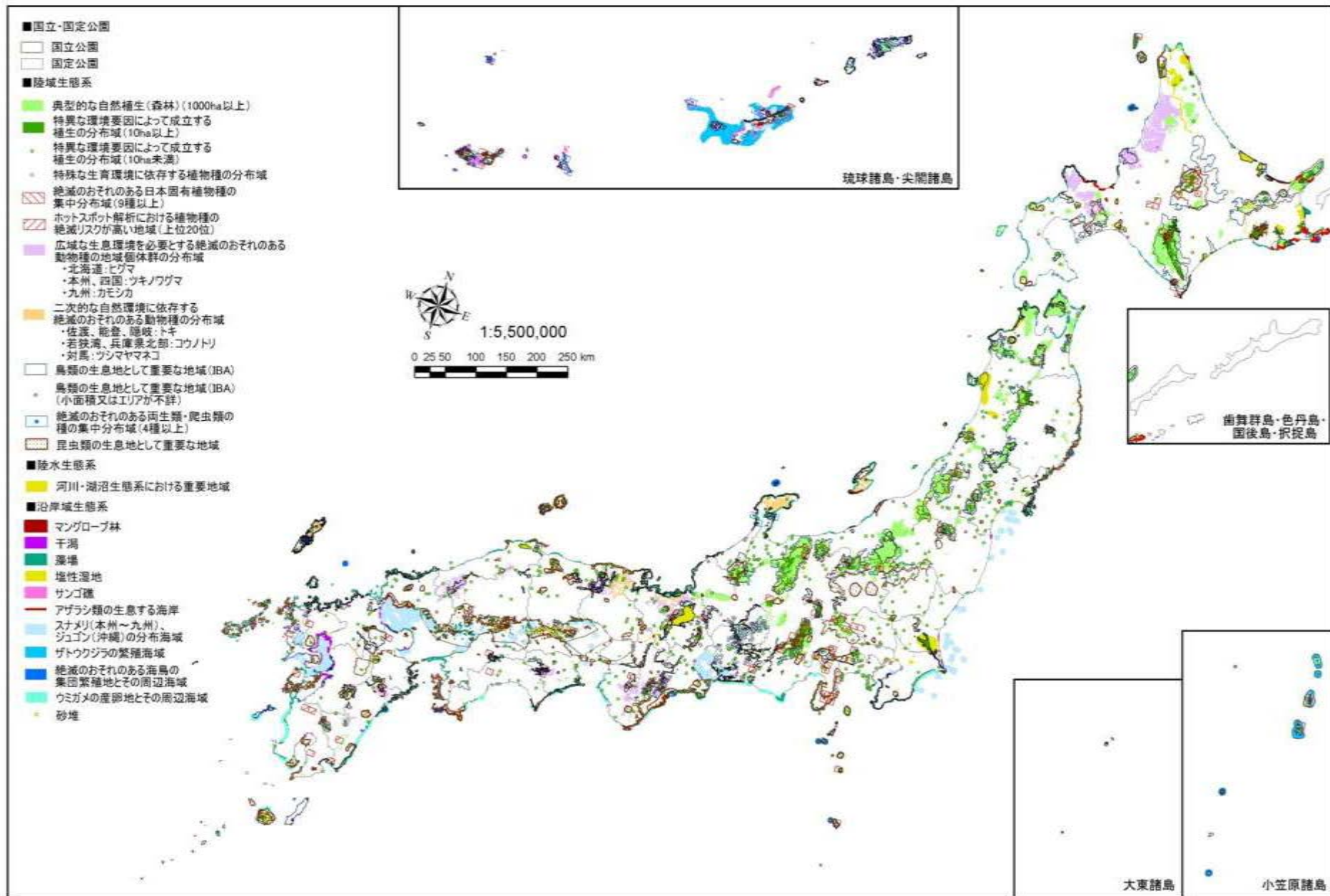
Comprehensive survey on national and quasi-national parks (2007–2010)

1. Background: changes in natural environment and social conditions since designation
2. Focus on terrestrial and coastal areas
3. Selection of important areas in terms of natural environment (ecological and geological characteristics)
4. Gap analysis between the selected areas and the existing national and quasi-national parks
5. Selection of 18 candidate sites for new designation and large-scale expansion

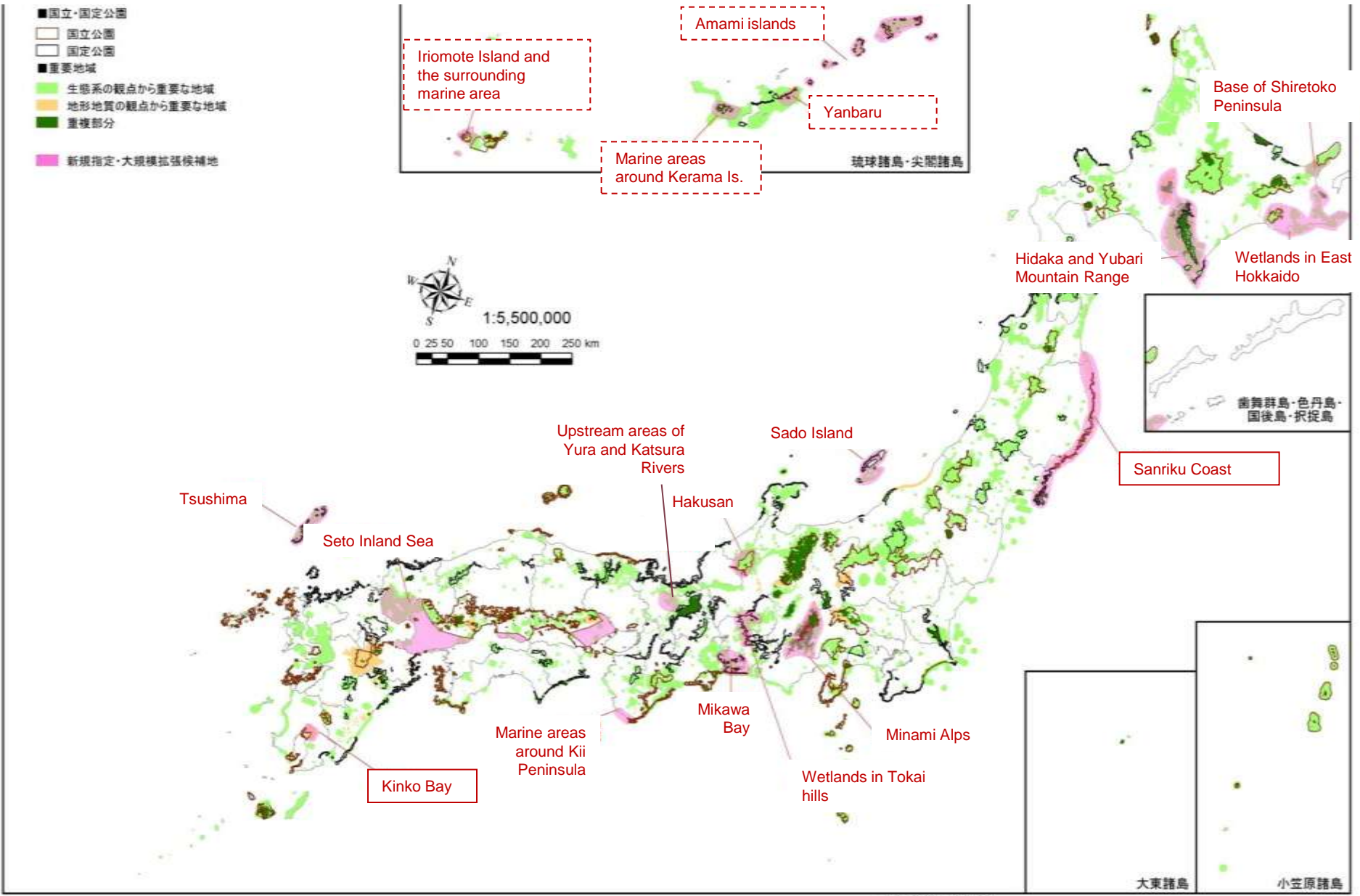
Important areas in terms of geographic characteristics



Important areas in terms of ecological characteristics

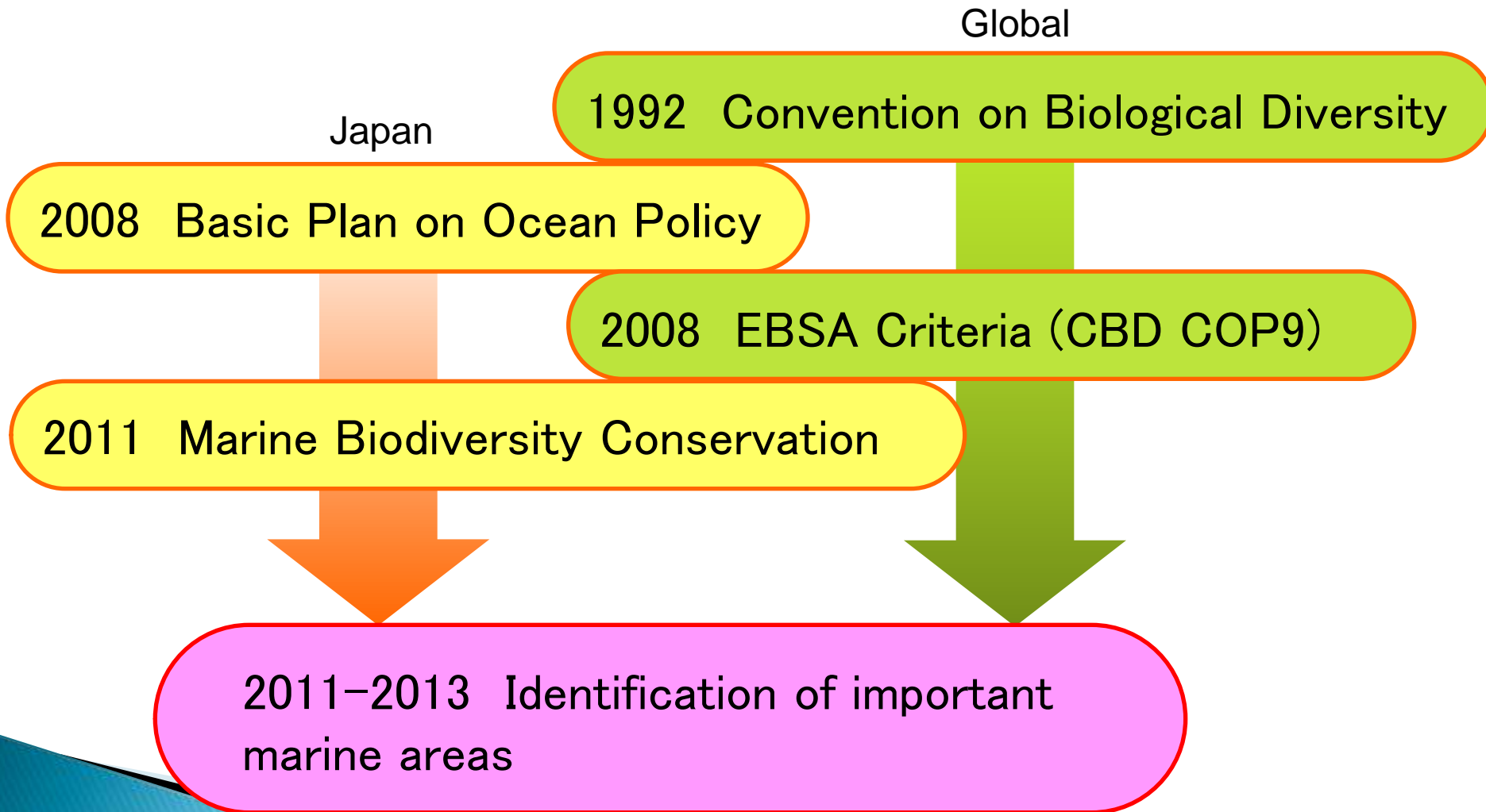


18 candidate sites for new designation and large-scale expansion of national and quasi-national parks




*候補地名は仮称である。
*図示してある候補地の範囲は概念的なものであり、具体的な公園区域と一致するものではない。

Selection of important marine areas (2011–2013)



Intended use

- ▶ Enhancement of Marine Protected Areas and networking thereof
 - ▶ Adaptation to the predicted effects of climate change
 - ▶ Appropriate management and environmental consideration in open ocean
 - ▶ Promotion of public awareness and involvement of various actors
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Criteria

EBSA Criteria (UNEP/CBD/COP/DEC/IX/20)	
1	Uniqueness or rarity
2	Special importance for life–history stages of species
3	Importance for threatened, endangered or declining species and/or habitats
4	Vulnerability, fragility, sensitivity, or slow recovery
5	Biological productivity
6	Biological diversity
7	Naturalness
Additional criterion	
8	Representativeness or Typicality Area containing representative or typical feature of ecosystem and/or biotic community of Japan

GIS data applied in each criteria

Biological data

Distribution data
Marine Mammals
Birds
Turtles/Sea snakes
Fish
Cnidaria/Mollusca/Others
Deep Sea Corals
Chemosynthetic community
Red List Species
IBA, Marine IBA
National monument

etc.

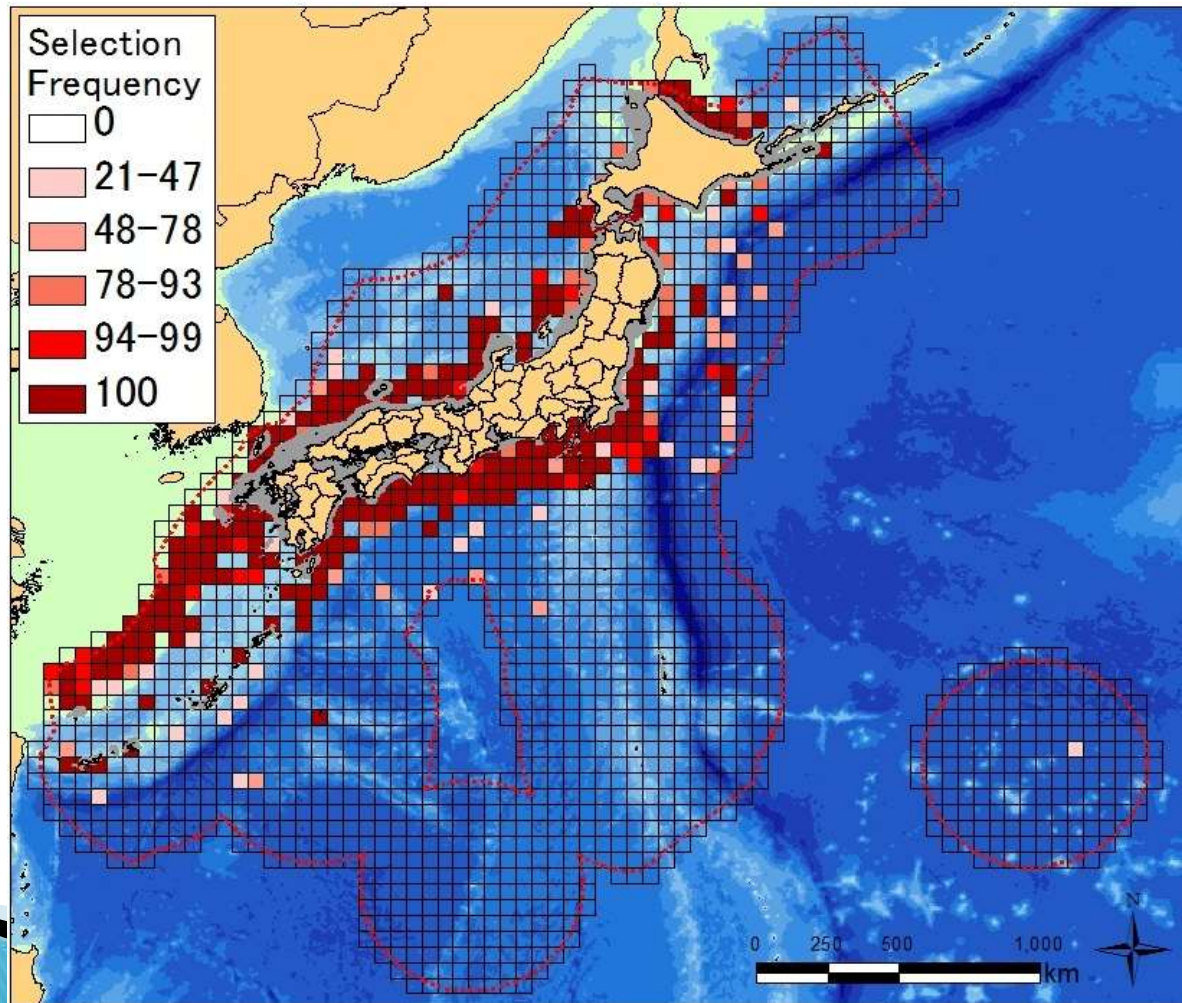
Physical data

Bathymetry
Chlorophyll a concentration
Distribution of canyons
Front and upwelling current
M2 Hamitade
Ocean current
Sea Ice
Sand bank
Seamount Locations
Trench
Hydrothermal vents and seeps

etc.

Sample result of analysis

MARXAN solution in open ocean (epipelagic open ocean)



Thank you

