15th Nov. 2013 1st APC WG6 22

Perspectives of the protected areas in Japan -Current situation and gaps for conservation of biodiversity-

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around 60 years.

Coverage of PAs in Japan & the World

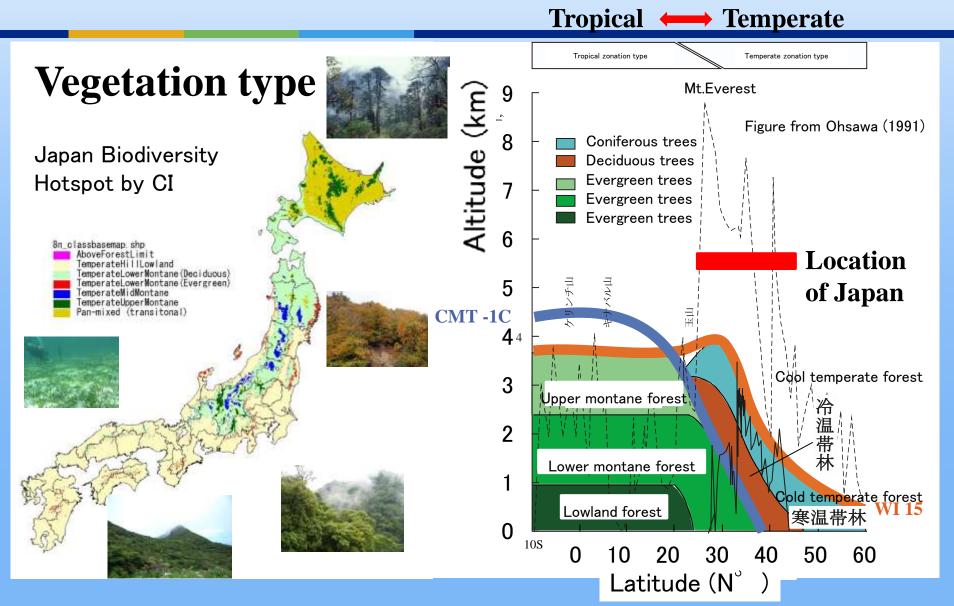


From World Database on Protected Areas (2010)

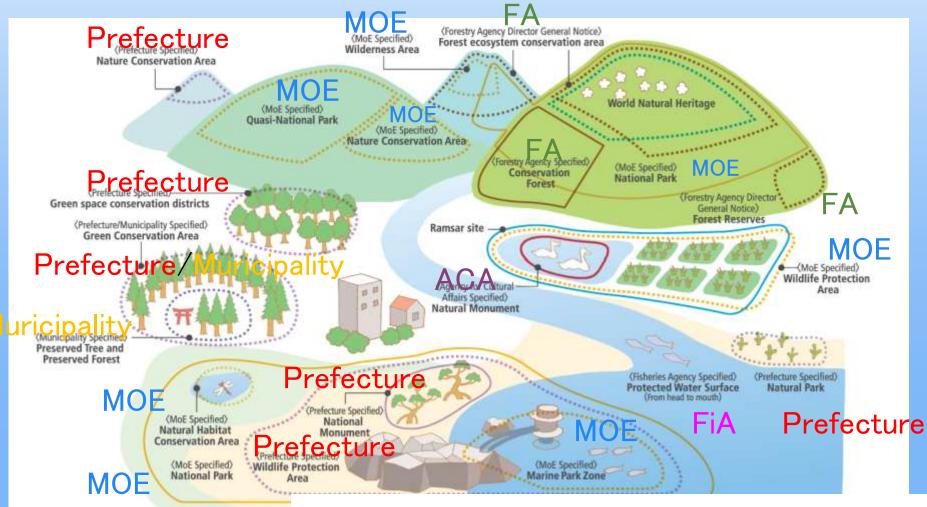
Introduction

- Overview for various types of Japan PAs
- How many percentage of total area of JP is covered by overall JP PAs?
- How many gaps do exist between PAs and important natural area.

Japan is a Biodiversity hotspot in the world

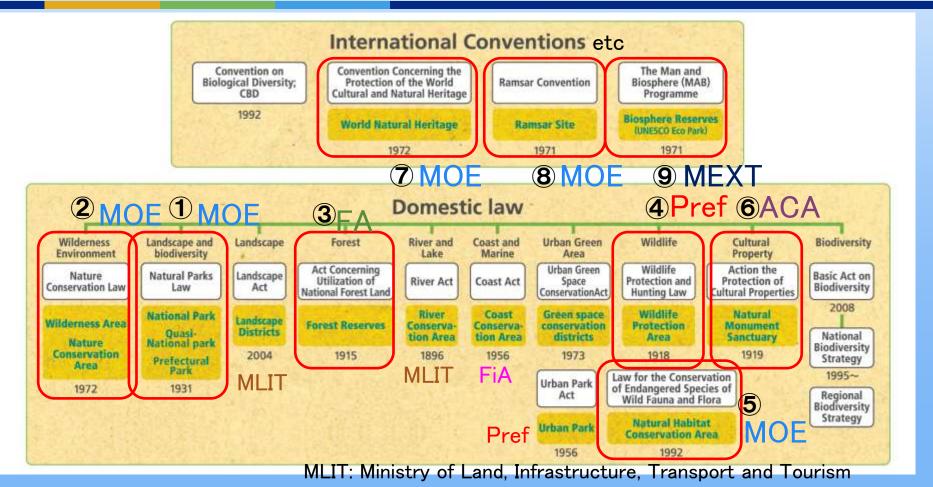


Various type of Japan PAs concerning to the habitats



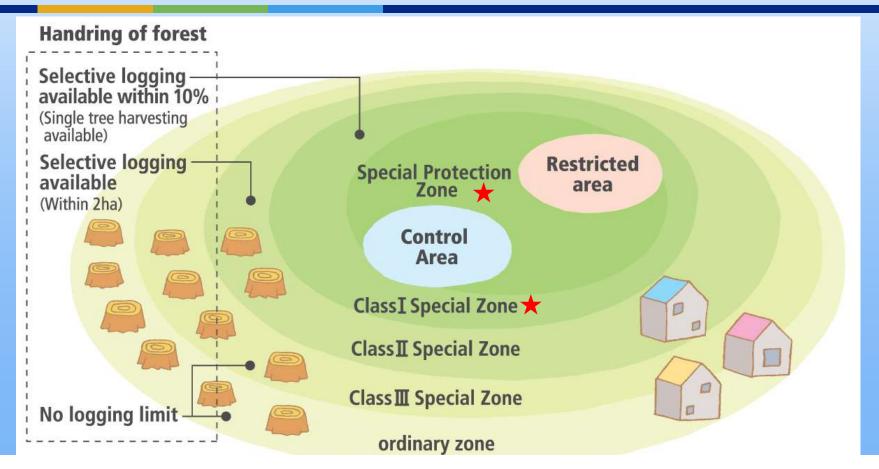
MOE: Ministry of Environment, FoA: Forest Agency, ACA: Agency for Cultural Affairs, FiA: Agency for Fisheric

Legal System for Japan PAs



MEXT: Ministry of Education, Culture Sports, Science and Technology Legal based PAs are designated with the purpose of protection, the Domestic laws concerning PAs are equally dependently functional.

Land categories of Natural Parks



Land categories are established in accordance with the strictness of the protection regulation as in case of Natural Parks and Forestry Ecosystem PAs etc.



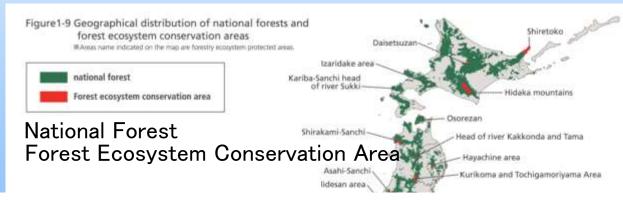


		Number	Land Only(km ²)	Proportion to TAJ(%)
National Park		30	21,029.42	5.64
Special Zone	★ Special Protection Zone & ClassI Special Zone		5,311.25	1.42
	Class II & Class III Special Zone		9,768.52	2.62
Ordinary Zone	Ordinary Zone		5,949.66	1.60
Quasi-National Park		56	13,498.15	3.62
Special Zone	★ Special Protection Zone & ClassI Special Zone		2,366.22	1.42
	Class II & Class III Special Zone		10,141.68	2.72
Ordinary Zone	Ordinary Zone		990.26	0.27
Prefectural Park		315	19,375.21	5.20
Natural Parks on The Nat	ural Parks Law	401	53,902.79	14.46
Land Area			372,828.90	

★: Area requiring the most stringent protection

As of April 2013





Act Concerning Utilization of National Forest Land
Forest Agency

١	Number	Land Only(km ²)	Proportion to TAJ(%)	Remarks
Forest Area		254,284.20	68.20	GIS data
National Forest Area		78,575.80	21.08	GIS data
Forest Reserves	843	7,564.67	2.03	Forest Agency
★Forest ecosystem conservation area	29	4,924.67	1.32	GIS data
Forests for the conservation of genetic resources	12	350.00	0.09	Forest Agency
Forests for the preservation of the genetic resources of tree species	324	90.00	0.02	Forest Agency
Forests for the protection of plant colonies	369	1,570.00	0.42	Forest Agency
Forests for the protection of specified wildlife habitats	38	220.00	0.06	Forest Agency
Forests for the protection of specified geographical features, etc	33	370.00	0.10	Forest Agency
Forests for the local culture	38	40.00	0.01	Forest Agency
Green Corridor	24	5,100.00	1.37	Forest Agency
Forest Reserves and Green Corridor	867	12,664.67	3.40	
Land Area		372,828.90		

★: Area requiring the most stringent protection





	Number	Land Only(km ²)	Proportion to TAJ(%)
★Wilderness Area	5	56.02	0.02
★Nature Conservation Area	10	217.73	0.07
Prefectual Nature Conservation Area	541	771.44	0.21
Nature Conservation Area	556	1,045.19	0.28
Land Area		372,828.90	

*: Area requiring the most stringent protection

As of April 2013

Wildlife Protection Areas

- Figure 1-11 Geographical distribution of wildlife protection areas (national wildlife protection areas and prefectural wildlife protection areas) [terrestrial]
- National Wildlife Protection Area
 National Wildlife Protection Area
 Special Protection Zone
 Prefectural Wildlife Protection Area
 Prefectural Wildlife Protection Area
 Special Protection Zone

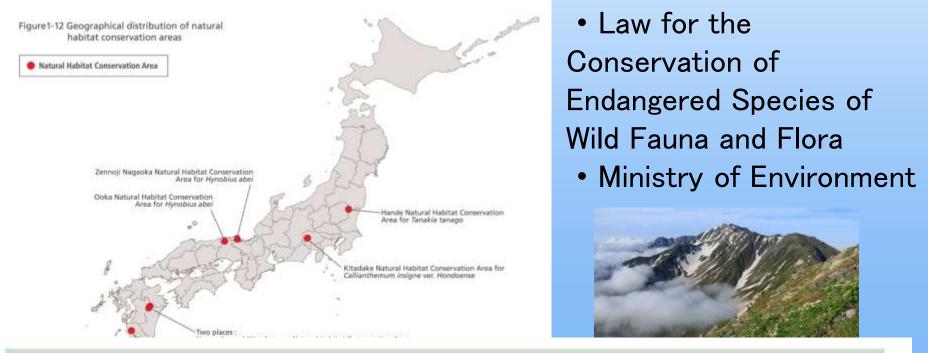
National Wildlife Protection Area Special Protection Zone Prefectural Wildlife Protection Area Special Protection Zone

- Wildlife Protection and Hunting Law
 - Ministry of Environment



	Number	Land Only(km ²)	Proportion to TAJ(%)
National Wildlife Protection Area	82	4,656.82	1.25
★ Special Zone	66	1,331.87	0.36
Prefectural Wildlife Protection Area	3,759	30,245.82	8.11
★ Special Zone	552	1,548.35	0.42
Total	3 841	34 902 64	9.36



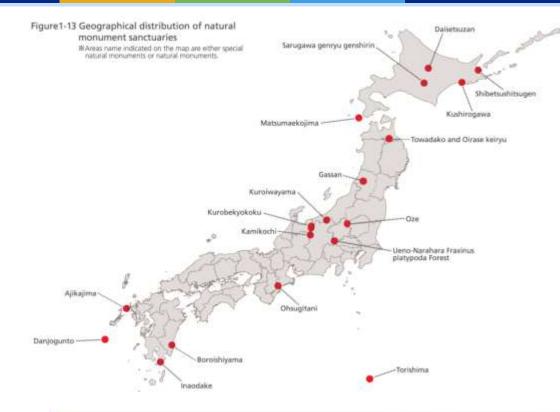


	Number	Land Only(km ²)	Proportion to	TAJ(%)
★Natural Habitat Conservation Area	9	8.75		0.002

★: Areas requiring the most stringent protection are management zones where reclamation and/or logging are restricted. However, ★ is indicated for the entire natural habitat conservation areas as related GIS data is yet to be established.

As of April 2013

6 Natural Monument Sanctuaries



Nakam

Hoshitate

Act on Protection of Cultural Properties
Agency for Cultural Affaires



	Number	Land Only(km ²)	Proportion to 1	FAJ(%)
★Natural Monument Sanctuary	23	901.61		0.24
: Area requiring the most stringent pro	otection		As of Apr	il 201





World Natural Heritage & Ramsar site
Ministry of Environment
Biosphere Reserve
Ministry of Education,
Culture, Sports, Science
and Technology

	Number	Land Only(km ²)	Proportion to TAJ(%)
★World Natural Heritage	4	828.14	0.22
★ Biosphere Reserve	5	1,262.85	0.34
★Ramsar site	46	1,256.50	0.34
International Protected Area	55	3,347.50	0.90
Land Area		372,828.90	

Streams in Korr



Area requiring the most stringent protection

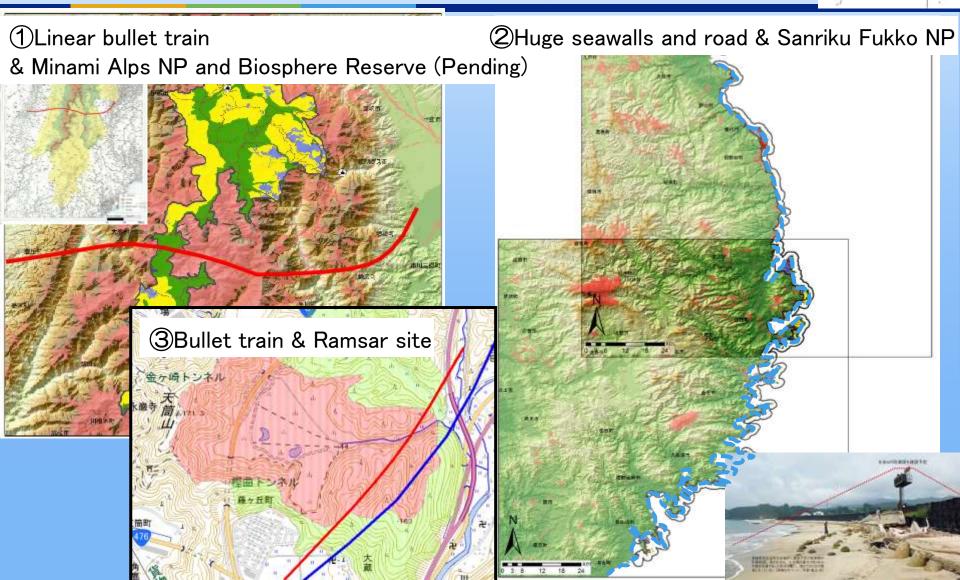
As of April 2013

No	Protected Area	Number	Land only(km ²)	Proportion to TAJ(%)
1	Natural Park	401	53,902.79	14.46
	Narional Park	30	21,029.42	5.64
	★ Special Protection Zone & ClassI Special Zone		5,311.25	1.42
	Quasi-National Park	56	13,498.15	3.62
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	Prefectural Park	315	19,375.21	5.20
2	Nature Conservation Area	556	1,045.19	0.28
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	Sum of 🛨 of 1~9	832	20 013 96	5.37

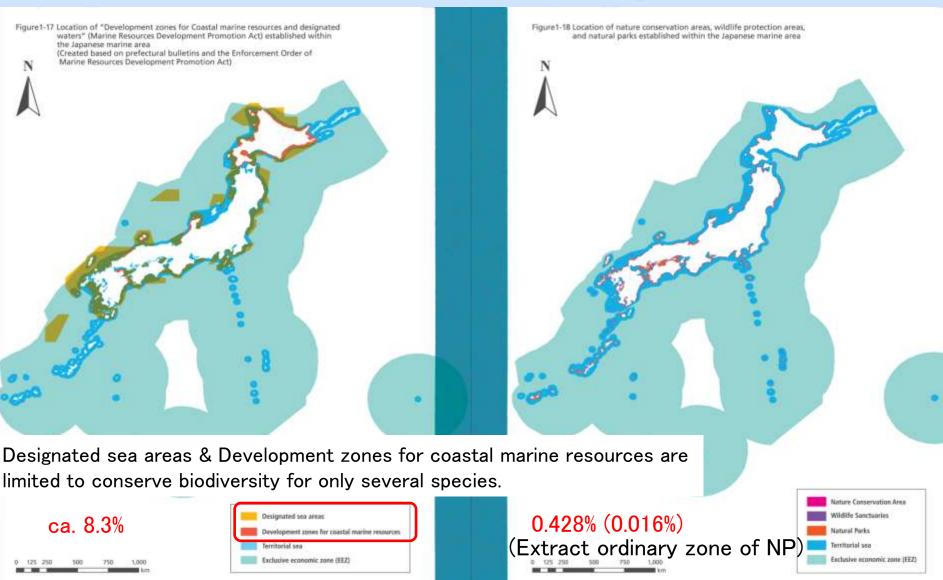
Total area of Japan PAs (9 PAs) is 19.3%,

however strictly protected areas is only 3.6%. 16.3% of WDPA is probably sum of NP, NC, NWP, and NHCA under jurisdiction of MOE (16.0%).

Mismatch between PAs and huge development

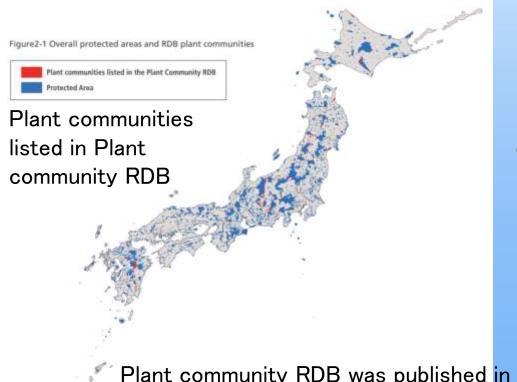


Marine PAs in Japan



If you interested in MPA issues, join the side event by NACS-

Gap analysis between PAs and RDB Plant communities



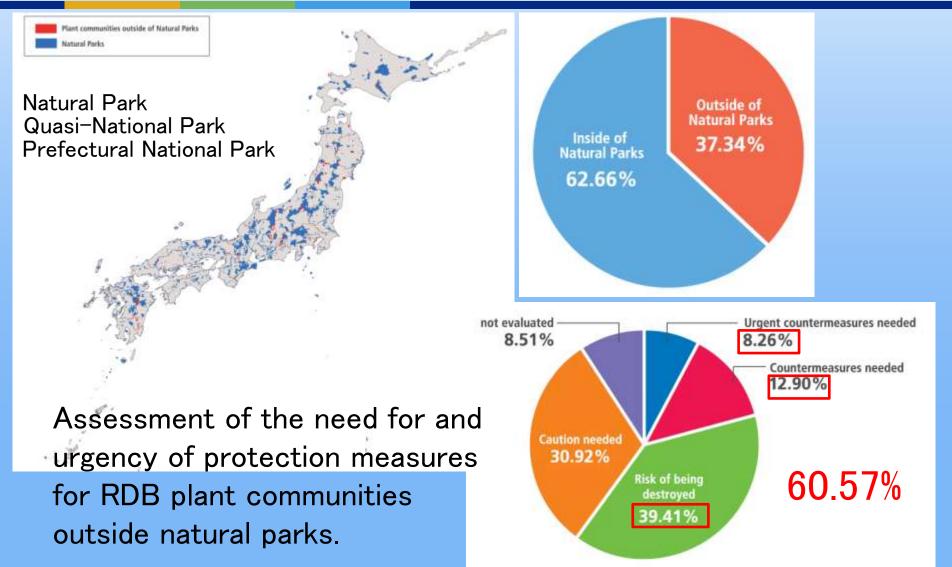
26.2% of RDB plant
communities is not
covered by PAs.
4,211 plant communities
listed to use gap analysis.



Plant community RDB was published in 1996 by NACS-J & WWF-

Area(km ²)	Proportion of the gap area(%)
10,061.44	
2,635.57	26.19
	10,061.44

Gap analysis between Natural Parks and RDB Plant communities



17 RDB plant communities per 31 plant communities which the area within NP is less than 50% (54.8%) are near water

Proportion of Plant communities inside of Natural Parks



Proportion Plant communities outside of Natural Parks

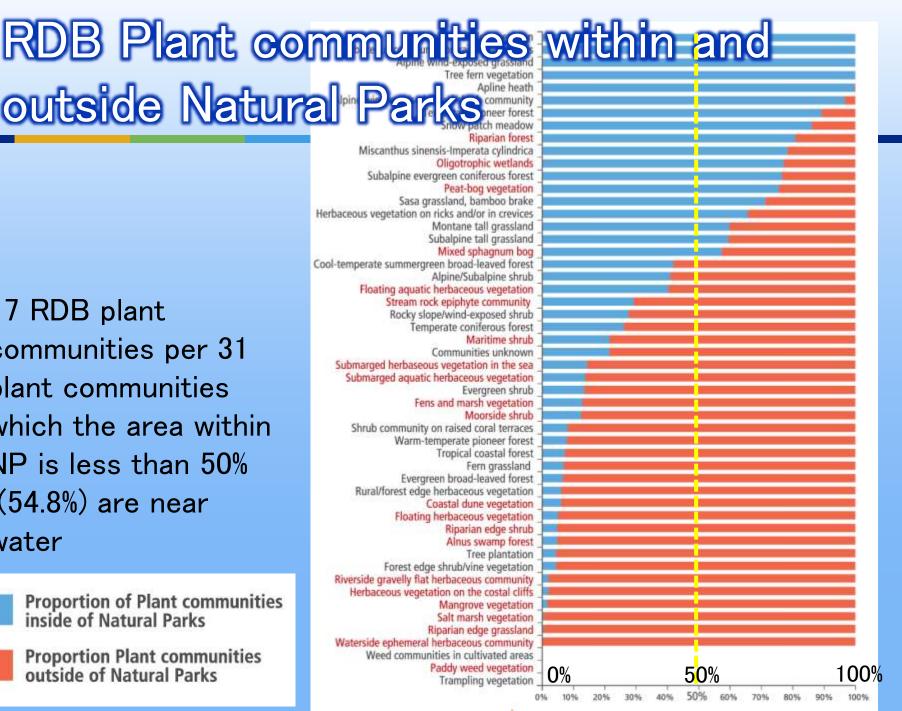
outside Natural pin Parks community **Riparian** forest Miscanthus sinensis-Imperata cylindrica Oligotrophic wetlands Subalpine evergreen coniferous forest Peat-bog vegetation Sasa grassland, bamboo brake Herbaceous vegetation on ricks and/or in crevices Montane tall grassland Subalpine tall grassland Mixed sphagnum bog Cool-temperate summergreen broad-leaved forest Alpine/Subalpine shrub Floating aquatic herbaceous vegetation Stream rock epiphyte community Rocky slope/wind-exposed shrub Temperate coniferous forest Maritime shrub Communities unknown Submarged herbaseous vegetation in the sea Submarged aquatic herbaceous vegetation Evergreen shrub Fens and marsh vegetation Moorside shrub Shrub community on raised coral terraces Warm-temperate pioneer forest Tropical coastal forest Fern grassland Evergreen broad-leaved forest Rural/forest edge herbaceous vegetation Coastal dune vegetation Floating herbaceous vegetation Riparian edge shrub Alnus swamp forest Tree plantation Forest edge shrub/vine vegetation Riverside gravelly flat herbaceous community Herbaceous vegetation on the costal cliffs Mangrove vegetation Salt marsh vegetation Riparian edge grassland Waterside ephemeral herbaceous community Weed communities in cultivated areas Paddy weed vegetation

Trampling vegetation

0%

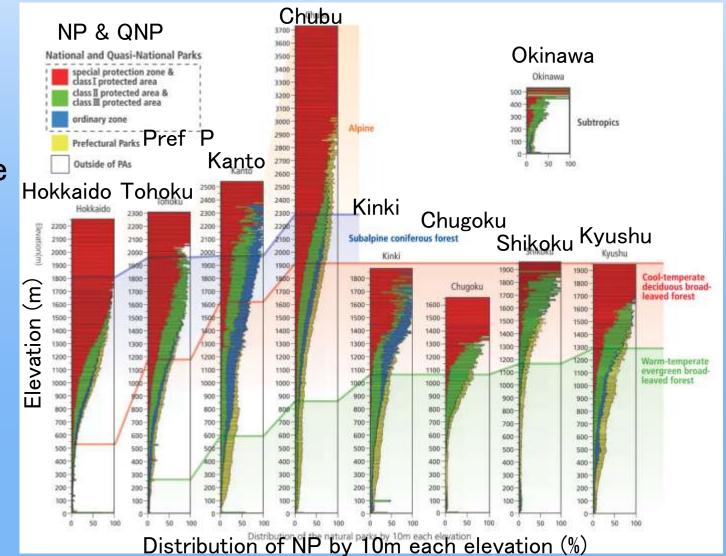
Tree fern vegetation

Apline heath



Geographical distribution of Natural Parks by Elevation

Many Natural Parks are located in higher altitude areas throughout Japan.



Assessment of IUCN Protected Area Management Categories

New categories based on assessment of IUCN protected area management categories and naturalness of Japanese national parks.

Parks name	IUCN	Cluster	Tentative
Shiretoko	V	Group1	I
Chubusangaku	V	Group1	Ш
Oze#2		Group1	П
Minami Alos	Π	Group1	π
Hakusan	V	Group1	П
Kushiroshitsugen	Щ.	Group1	щ.
Daisetsuzan	V	Group1	Π
Towada-Hachimantai	V	Group2	I
Bandai-Asahi	V	Group2	Π
Joshin'etsukogen	V	Group2	I
Iriomote-Ishigaki	V	Group2	Π
Akan	v	Group2	П
Shikotsu-Toya	V	Group2	П
Ogasawara	V	Group2	I
Yakushima ^{®1}		Group2	Ш
Rishiri-Rebun-Sarobetsu	I	Group2	I
Kirishima-Kinkowan®!		Group3	V
Yoshino-Kumano	Π	Group3	V
ise-snima	v	Groups	v
Chichibu-Tama-Kai ^{®3}	V	Group3	V
Rikuchukaigan	v	Group3	v
Nikko®2		Group3	V
Daisen-Oki	V	Group3	V
Ase Kaja	v	Group3	
San'inkaigan	П	Group3	V
Fuji-Hakone-Izu	V	Group3	V
Ashizuri-Uwakai	V	Group3	v
Saikai	V	Group4	V
Hotop Amakura	V	Grouph	W.
Setonaikai	П	Group4	V
(Kirishima-Yaku)**	V		
(Nikko) ^{≥2}	П		

#1 Kirishima Yaku National Park is now separated into Kirishima-Kinkowan National Park and Yakushima National Park. The above IUCN categories are before the separation.

#2 Separated from Nikko National Park. The above IUCN categories are before the separation.

#3 Chichibu-Tama-Kai National Park has been expanded. The above IUCN category is before the expansion.

Challenges connecting Japan and Asian PAs to conserve biodiversity

- Information about GIS data for overall Japan PAs should be developed to conduct scientific and sociological evaluation of PAs.
- We should be re-evaluate overall PAs, especially for strictly protected area, gaps concerning important natural area, and IUCN PA management categories.
- Comparison of17% of terrestrial & 10% of marine PAs of Aichi target only should be done to connect national and international PAs after overall each PA were evaluated by using the IUCN management categories and the effectiveness of PA.