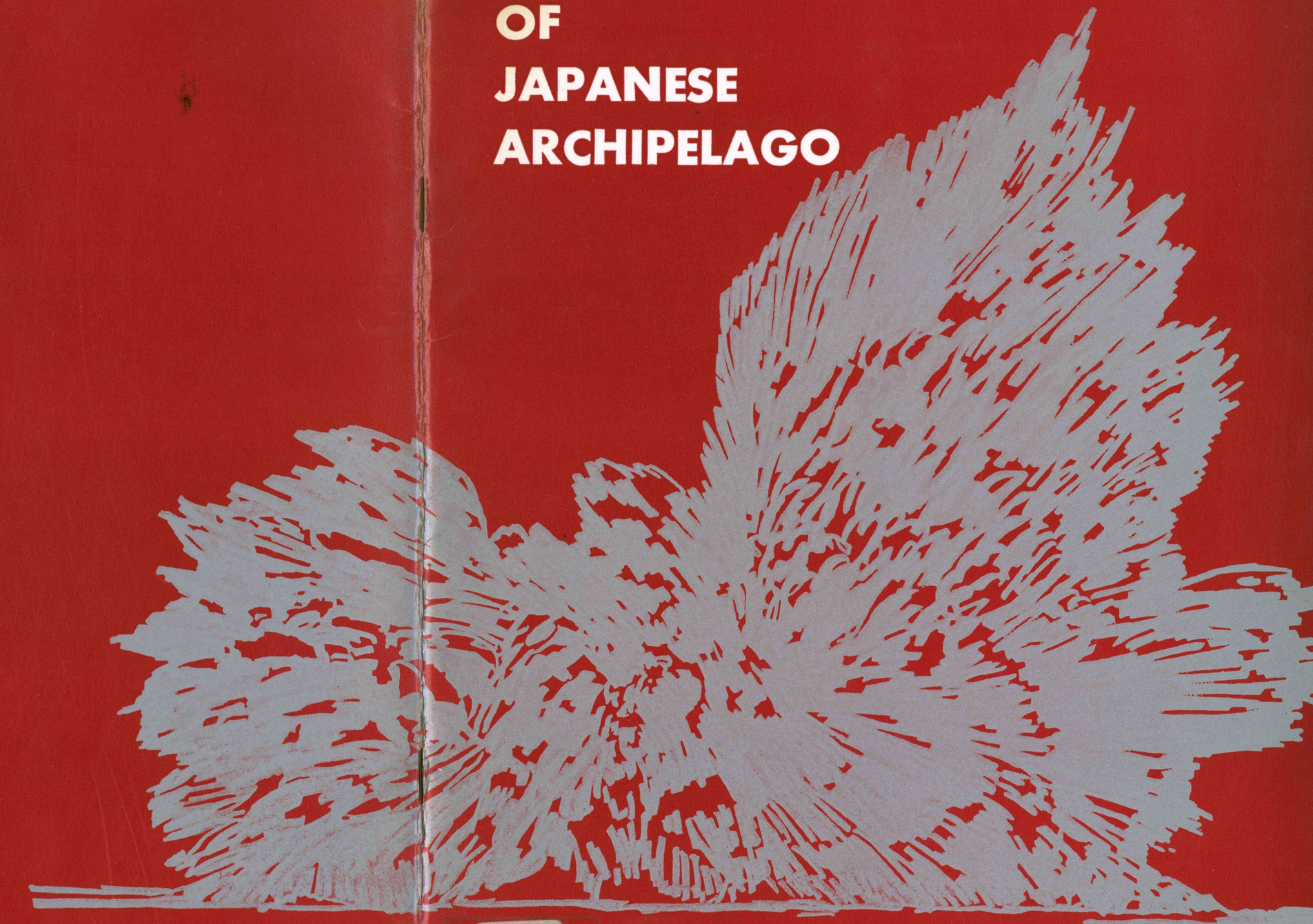
VOLCANOES OF JAPANESE ARCHIPELAGO



Myojin-sho 1952

VOLCANOES OF JAPANESE ARCHIPERAGO

1. Alaid Island
2. Chikura-dake
3. Nemo-san
4. Matsuwa-to
5. Ketoi-to
6. Shimushiri-dake
7. Moyoro-take
8. Rausu-dake
9. Io-san
10. Meakan-dake
11. Tokachi-dake
12. Rijiri-dake
13. Tarumai-zan
14. Usu-dake, Showa-shinzan
15. Komagatake
16. Oshima (Hokkaido)
17. Osore-yama
18. Iwaki-yama
19. Towada-ko, Lake
20. Yake-yama (Akita)
21. Iwate-yama
22. Komagatake (Akita)
23. Chokai-san
24. Sukawa-dake (Kurikoma-dake)
25. Zao-san
26. Azuma-san
27. Adatara-yama
28. Bandai-san
29. Nasu-dake
30. Shirane-san (Nikko)
31. Akagi-yama
32. Haruna-san
33. Shirane-san (Kusatsu)
34. Asama-yama
35. Fuji-san
36. Hakone-yama
37. Mihara-yama
38. Nii-jima
39. Kozu-shima
40. Miyake-jima
41. Hachijo-Fuji
42. Aoga-shima
43. Bayonnaise Rocks and Myojinsho Rocks
44. Tori-shima
45. Yake-yama (Niigata)
46. Io-dake
47. Yake-dake
48. Haku-san
49. Daisen
50. Sambe-yama
51. Tsurumi-dake
52. Kuju-san
53. Aso-san
54. Unzen-dake
55. Kirishima-yama
56. Sakura-jima
57. Kaimon-dake
58. Io-jima
59. Kuchinoerabu-shima
60. Nakano-shima
61. Suwanose-jima

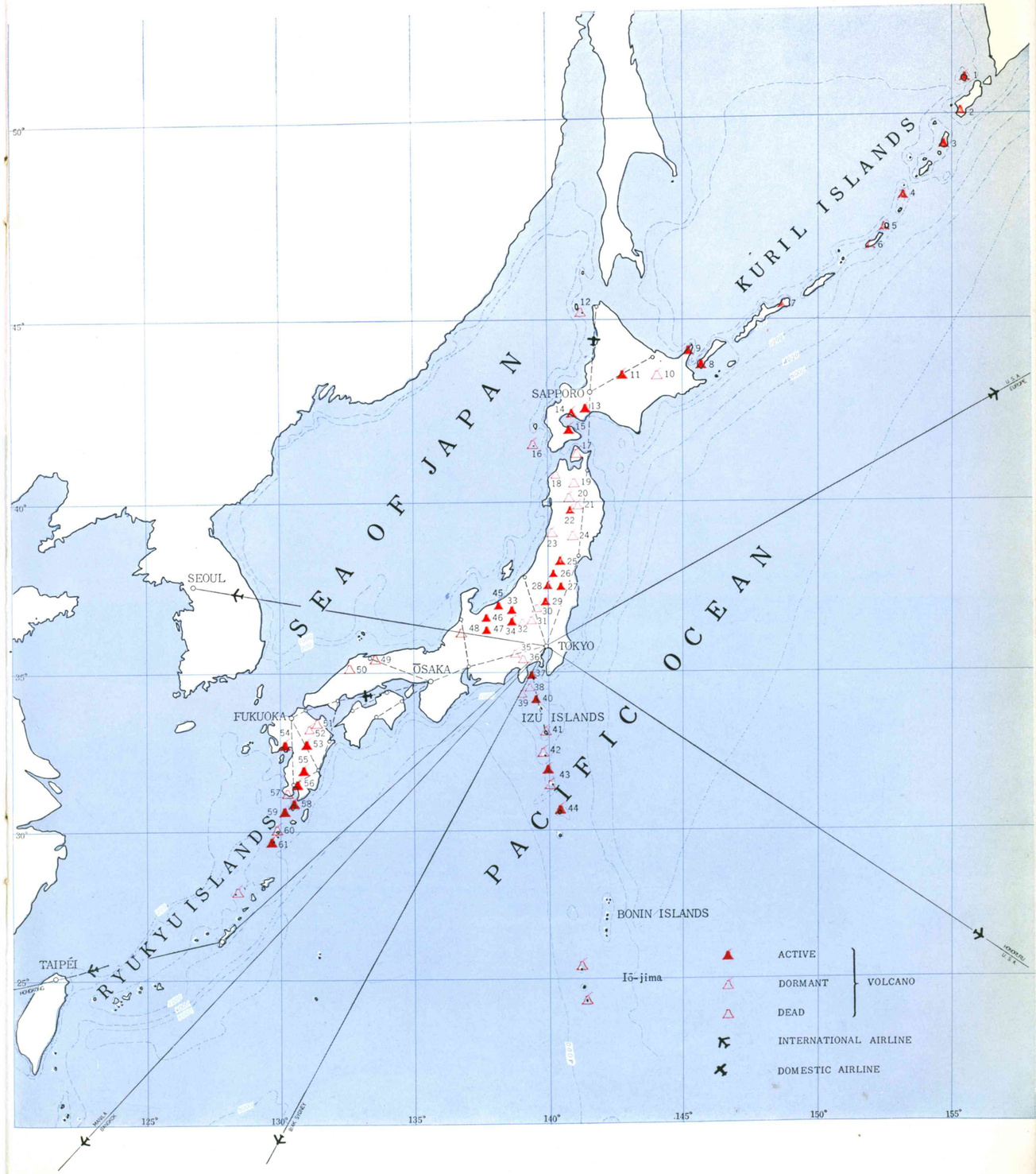
Editors

Hideho Sawata / Hiroshi Takahashi
Geological Survey of Japan

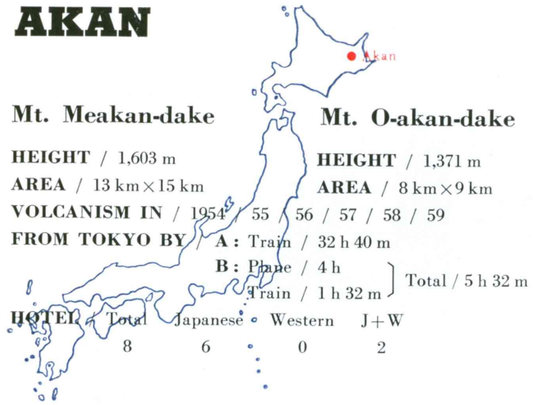
TOKYO GEOGRAPHICAL SOCIETY

Nibancho, Chiyoda-ku, Tokyo, Japan

1960



AKAN



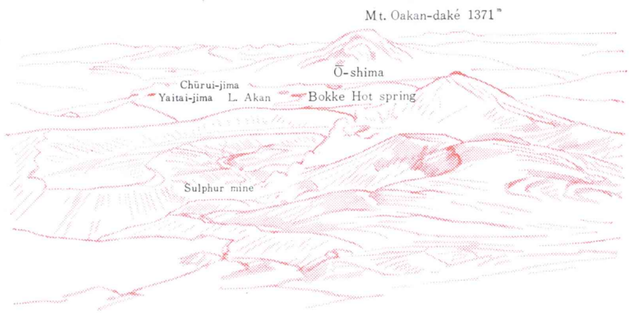
Mt. Meakan-dake

HEIGHT / 1,603 m
AREA / 13 km×15 km
VOLCANISM IN / 1954 / 55 / 56 / 57 / 58 / 59
FROM TOKYO BY / **A :** Train / 32 h 40 m
B : Plane / 4 h
Train / 1 h 32 m } Total / 5 h 32 m

HOTEL / Total 8 — Japanese 6 — Western 0 — J+W 2

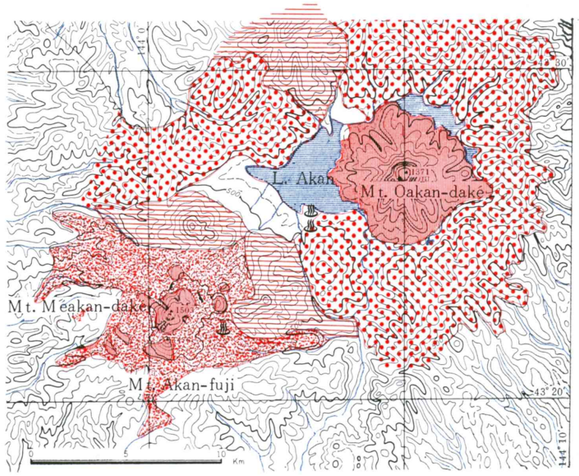
Mt. O-akan-dake

HEIGHT / 1,371 m
AREA / 8 km×9 km



▼ *Akan ; from Meakan-dake to Oakan-dake and Lake Akan*

◀ *Akan ; crater-wall of Meakan-dake and Pond Aonuma ; note two men in circles.*

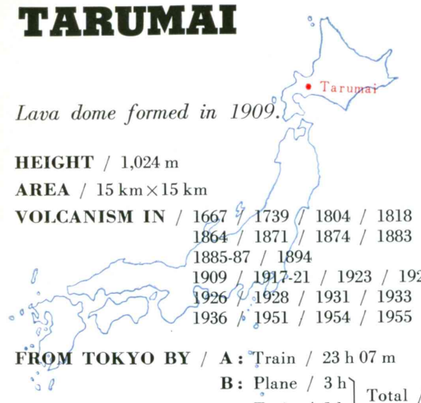


Legend

- Andesites of Mts. Oakan-dake and Meakan-daké
- Ejecta
- Other andesites
- Older andesite
- Hot spring

◀ *Akan ; Meakan-dake*

TARUMAI



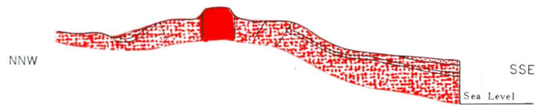
Lava dome formed in 1909.

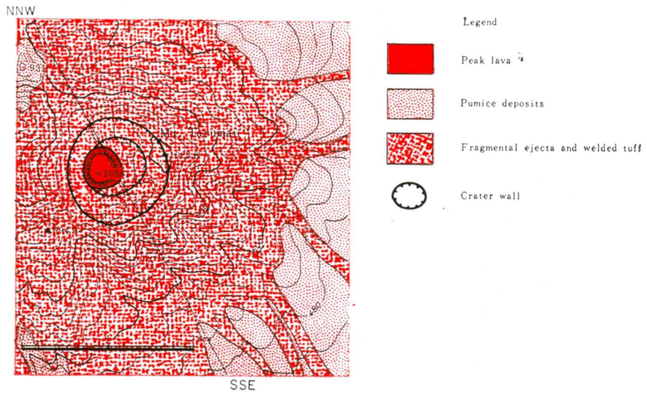
HEIGHT / 1,024 m
AREA / 15 km×15 km
VOLCANISM IN / 1667 / 1739 / 1804 / 1818
1864 / 1871 / 1874 / 1883
1885-87 / 1894
1909 / 1917-21 / 1923 / 1924
1926 / 1928 / 1931 / 1933
1936 / 1951 / 1954 / 1955

FROM TOKYO BY / **A :** Train / 23 h 07 m
B : Plane / 3 h, Train / 1 h } Total / 4 h

HOTEL / Total	Japanese	Western	J+W
2	2	0	0

▲ *Tarumai-zan*

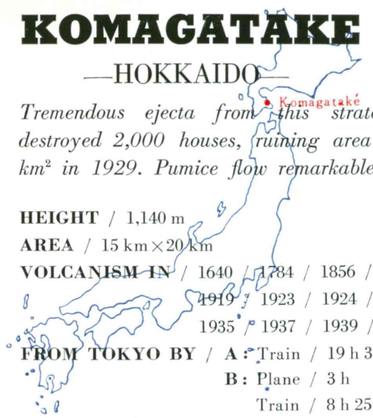




▼ *Tarumai-zan ; dome*

KOMAGATAKE

—HOKKAIDO—

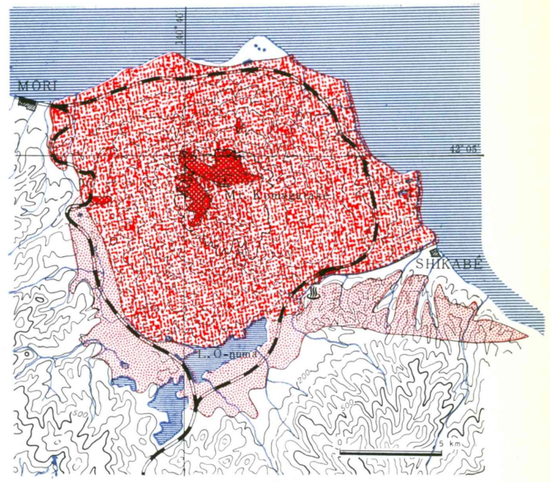


Tremendous ejecta from this strato-volcano destroyed 2,000 houses, ruining area of 330 km² in 1929. Pumice flow remarkable.

HEIGHT / 1,140 m
AREA / 15 km×20 km
VOLCANISM IN / 1640 / 1784 / 1856 / 1888 / 1905
1910 / 1923 / 1924 / 1928 / 1929
1935 / 1937 / 1939 / 1942

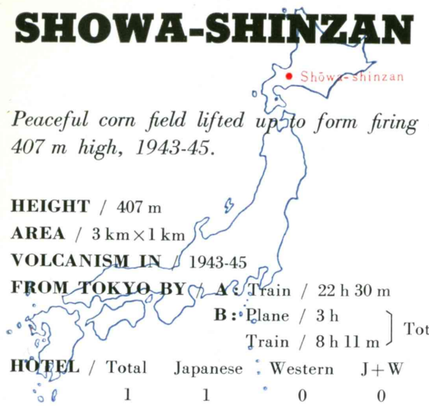
FROM TOKYO BY / **A :** Train / 19 h 37 m
B : Plane / 3 h, Train / 8 h 25 m } Total / 11 h 25 m

HOTEL (**O-NUMA**) / Total	Japanese	Western	J+W
2	2	0	0



▼ *Komagatake (Hokkaido) and Lake O-numa*

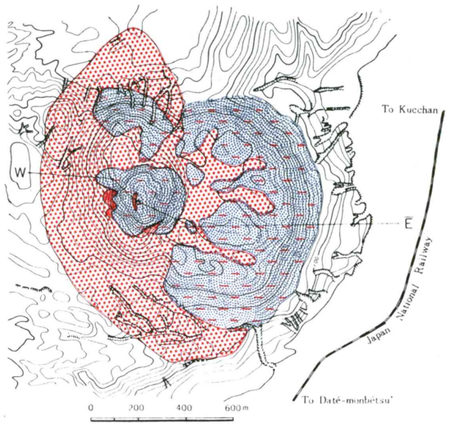
SHOWA-SHINZAN



Peaceful corn field lifted up to form firing dome 407 m high, 1943-45.

HEIGHT / 407 m
AREA / 3 km×1 km
VOLCANISM IN / 1943-45
FROM TOKYO BY / **A** / Train / 22 h 30 m
B : Plane / 3 h
Train / 8 h 11 m } Total / 11 h 11 m

HOTEL / Total	Japanese	Western	J+W
1	1	0	0



Ejecta of Mt. Shōwa-Shinzan

New lava of Mt. Shōwa-Shinzan

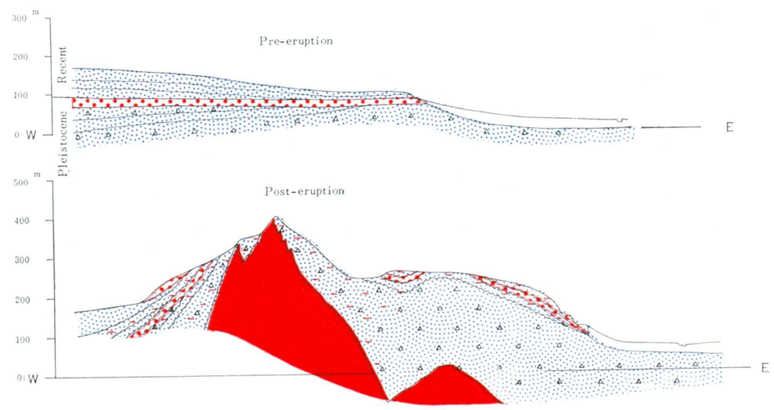
Older ejecta affected by volcanism of Mt. Shōwa-Shinzan

▼ *Showa-shinzan*

◀ *Showa-shinzan*

◀ *Showa-shinzan*

GEOLOGIC PROFILE OF MT. SHŌWA-SHINZAN



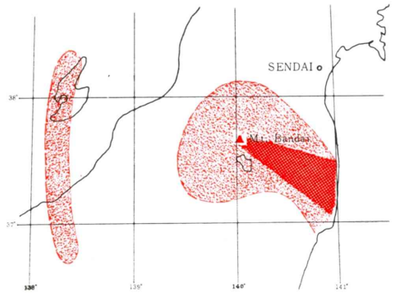
BANDAI-SAN

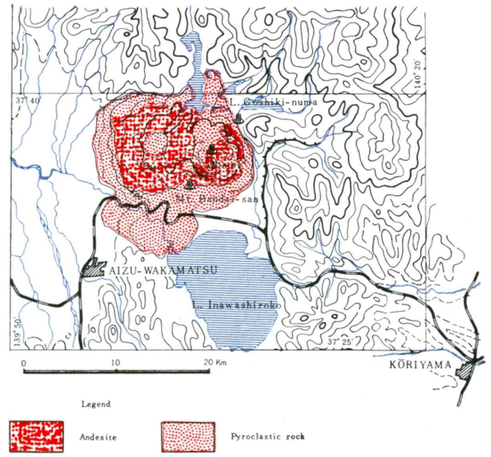
Great eruption in 1888 burst away mountain body of $1.2 \times 10^9 m^3$ to produce many a lake, 461 persons killed, 70 wounded, several ten km^2 area damaged.

HEIGHT / 1,819 m
AREA / 20 km × 20 km
VOLCANISM IN / 806 / 1888 / 1897
FROM TOKYO BY / Train / 5 h 10 m

HOTEL	Total	Japanese	Western	J+W
	7	7	0	0

▲ *Bandai-san and Lake Goshiki-numa (from north) The lake was produced by the eruption of the mountain-body in 1888.*





▼ *Bandai-san (from south)*

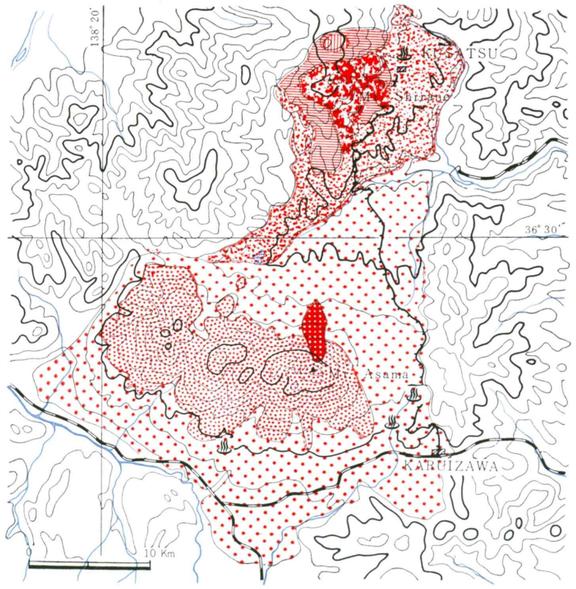
NASU

HEIGHT / 1,915 m
AREA / 30 km × 10 km
VOLCANISM IN / 1397 / 1408 / 1410 / 1846 / 1881 / 1953
FROM TOKYO BY / Train / 3 h 45 m

HOTEL	Total	Japanese	Western	J+W
	11	10	0	1

▲ *Nasu-san ; Chausu-yama*

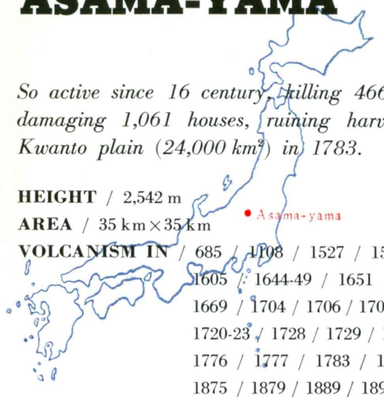
ASAMA / KUSATSU-SHIRANE



◀ *Asama-yama*

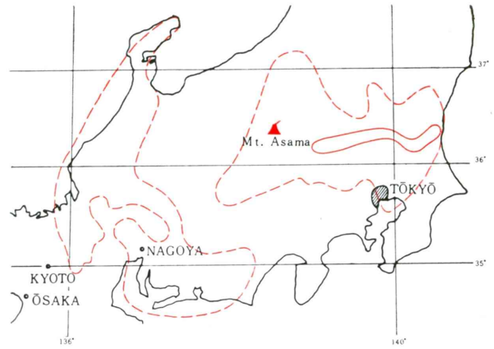
ASAMA-YAMA

So active since 16 century, killing 466 persons, damaging 1,061 houses, ruining harvest of all Kwanto plain (24,000 km²) in 1783.



HEIGHT / 2,542 m
AREA / 35 km×35 km
VOLCANISM IN / 685 / 1108 / 1527 / 1528 / 1532 / 1596
1605 / 1644-49 / 1651 / 1652 / 1655-61
1669 / 1704 / 1706 / 1709-11 / 1717 / 1718
1720-23 / 1728 / 1729 / 1732 / 1733 / 1754
1776 / 1777 / 1783 / 1803 / 1815 / 1869
1875 / 1879 / 1889 / 1894 / 1899 / 1900-25
1927-32 / 1934-42 / 1944-55 / 1958 / 1959
FROM TOKYO BY / Train / 3 h 57 m

HOTEL / Total	Japanese	Western	J+W
5	2	0	3



Area covered with volcanic ash from Mt. Asama, at eruption on 17 June, 1913

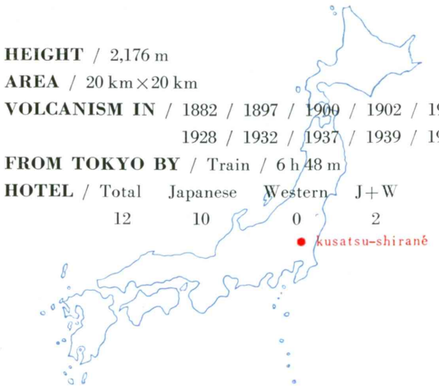
Area with eruptive sound on the same day

▼ *Asama-yama*

KUSATSU-SHIRANE

HEIGHT / 2,176 m
AREA / 20 km×20 km
VOLCANISM IN / 1882 / 1897 / 1900 / 1902 / 1905 / 1927
1928 / 1932 / 1937 / 1939 / 1942
FROM TOKYO BY / Train / 6 h 48 m

HOTEL / Total	Japanese	Western	J+W
12	10	0	2



▶ *Kusatsu-shirane-san ; crater with Hikama and Yukama*

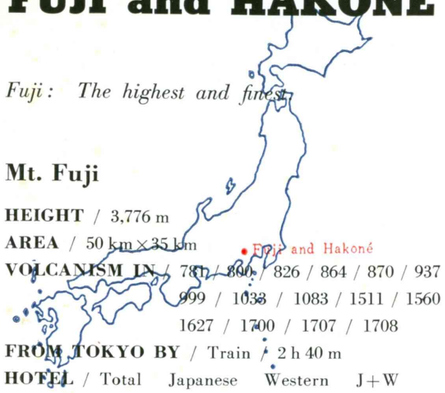
▶ *Kusatsu-shirane-san ; crater-lake*

FUJI and HAKONE

Fuji : The highest and finest

Mt. Fuji

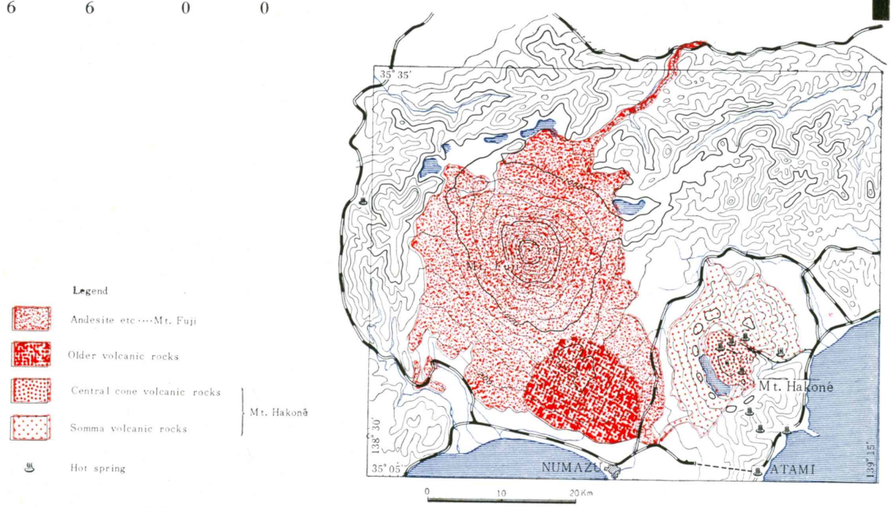
HEIGHT / 3,776 m
AREA / 50 km×35 km
VOLCANISM IN / 781 / 800 / 826 / 864 / 870 / 937 / 999 / 1033 / 1083 / 1511 / 1560 / 1627 / 1700 / 1707 / 1708
FROM TOKYO BY / Train / 2 h 40 m
HOTEL / Total 6 / Japanese 6 / Western 0 / J+W 0



Hakone : Resting room for Tokyo with many hot springs and well-equipped accomomdation.

Mt. Hakone

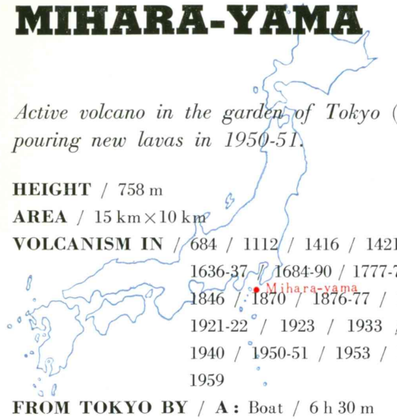
HEIGHT / 1,439 m
AREA / 30 km×20 km
VOLCANISM IN / —
FROM TOKYO BY / Train / 1 h 10m
HOTEL / Total 78 / Japanese 68 / Western 1 / J+W 9



▼ *Lake Ashino-ko (Hakone) and Mt. Fuji*

◀ *Mt. Fuji from NNW*

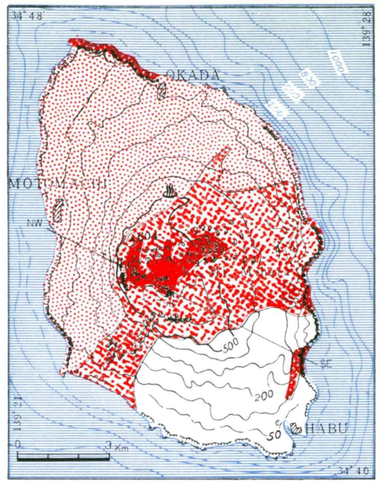
MIHARA-YAMA



Active volcano in the garden of Tokyo (40 minutes by plane), pouring new lavas in 1950-51.

HEIGHT / 758 m
AREA / 15 km×10 km
VOLCANISM IN / 684 / 1112 / 1416 / 1421 / 1552 / 1600-01 / 1612-13 1636-37 / 1684-90 / 1777-78 / 1779 / 1789 / 1803 / 1822 1846 / 1870 / 1876-77 / 1910 / 1912-14 / 1915 / 1919 1921-22 / 1923 / 1933 / 1934 / 1935 / 1938 / 1939 1940 / 1950-51 / 1953 / 1954 / 1956 / 1957 / 1958 1959
FROM TOKYO BY / **A :** Boat / 6 h 30 m
B : Plane / 40 m

HOTEL / Total	Japanese	Western	J+W
7	5	0	2

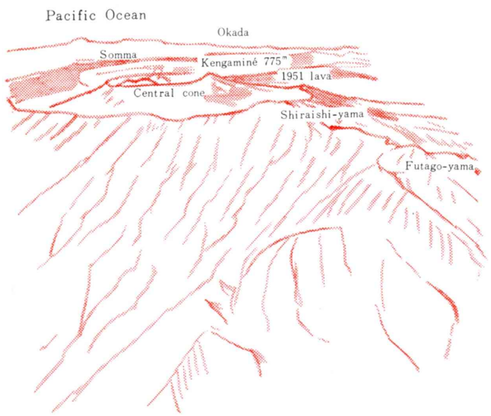


Legend

- 1950-51 Lava
- Central cone lavas and ejecta
- Somma lavas and ejecta

} Recent

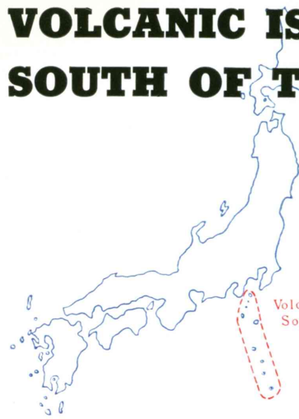
- Older basalts
- Hot spring

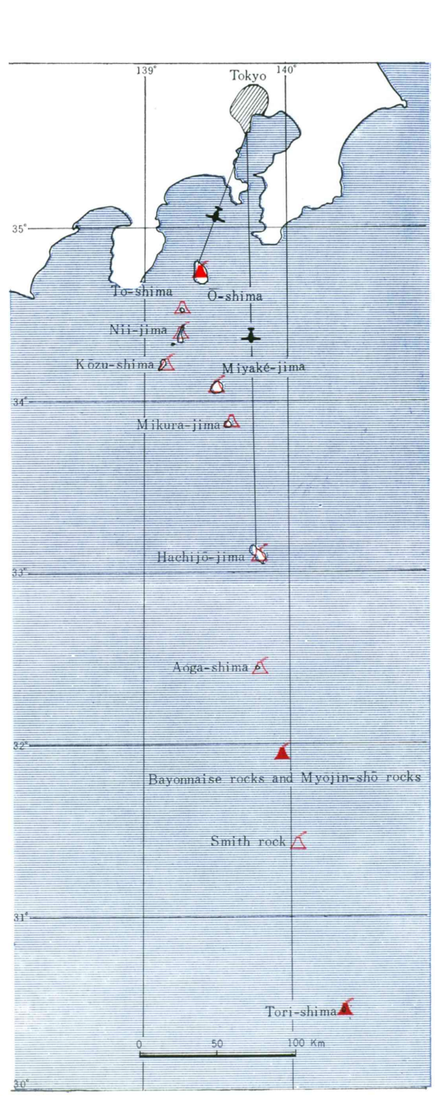


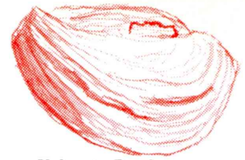
▼ *Mt. Mihara-yama (from Kengamine)*

▲ *Mt. Mihara-yama, Izu-Oshima*

VOLCANIC ISLANDS SOUTH OF TOKYO



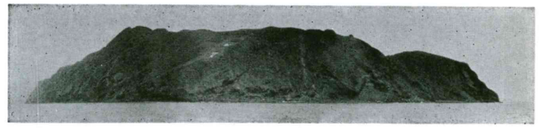




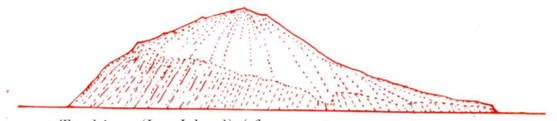
Volcanic Bomb
Mihara-yama, Izu-O-shima

Volcanic Bomb
Chichi-jima, Ogasawara
(*Bonin Islands*)

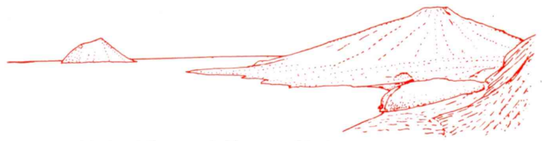
Volcanic Bomb
Miyake-jima, Izu Islands



▲ *Aoga-shima*

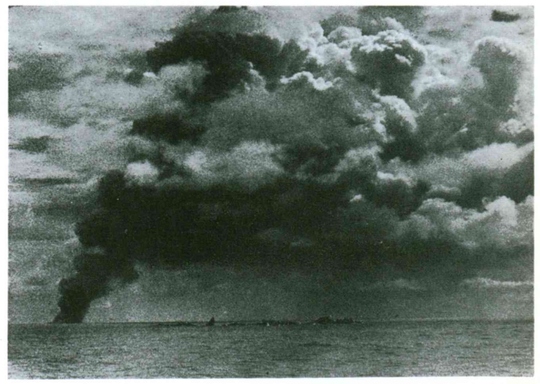


▲ To-shima (Izu Island) (*from east*



▲ Mt. Hachijo-Fuji and Kojima, Hachijo-jima, Izu Islands (*from southeast*)

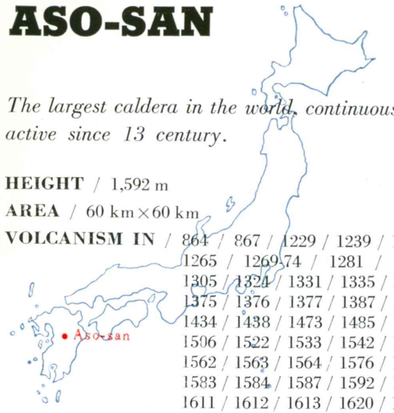
▲ Tori-shima (*Izu*) ; *Double volcano crowned with a circular caldera. Killed all villagers on the island, 125 persons, in 1902.* (*From NW, July 1933*)



▲ *Bayonnaise Rocks and erupting Myojin-sho from west*

Myojin-sho ; *Atomic bomb-like submarine volcano sunk a research boat (211 t) with 9 scientists and 22 of crew in a moment, 1952.*

ASO-SAN

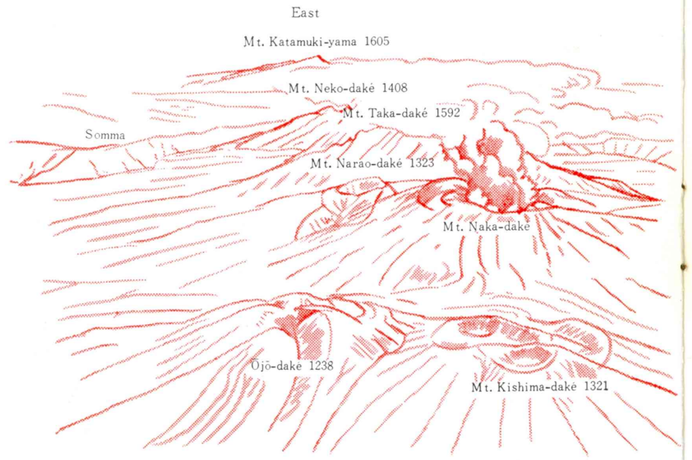


The largest caldera in the world, continuously active since 13 century.

HEIGHT / 1,592 m

AREA / 60 km×60 km

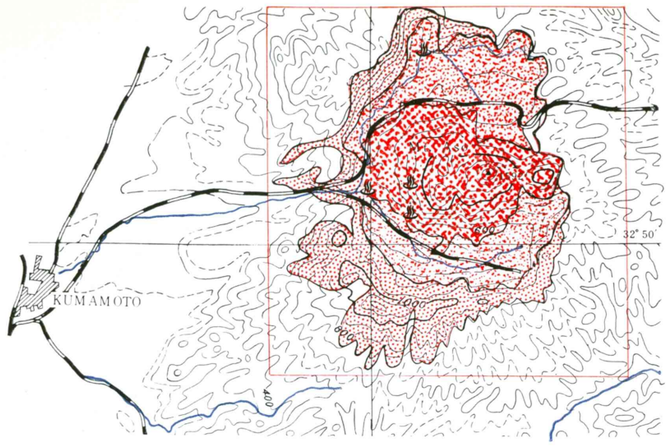
VOLCANISM IN / 864 / 867 / 1229 / 1239 / 1240
1265 / 1269.74 / 1281 / 1286
1305 / 1324 / 1331 / 1335 / 1340
1375 / 1376 / 1377 / 1387 / 1388
1434 / 1438 / 1473 / 1485 / 1505
1506 / 1522 / 1533 / 1542 / 1558
1562 / 1563 / 1564 / 1576 / 1592
1583 / 1584 / 1587 / 1592 / 1598
1611 / 1612 / 1613 / 1620 / 1631
1637 / 1649 / 1668 / 1675 / 1683
1691 / 1708 / 1709 / 1765
1772-80 / 1804 / 1806 / 1814 / 1815
1826 / 1827 / 1828 / 1830 / 1854
1872 / 1874 / 1894 / 1894-1953
1956 / 1957 / 1958 / 1959

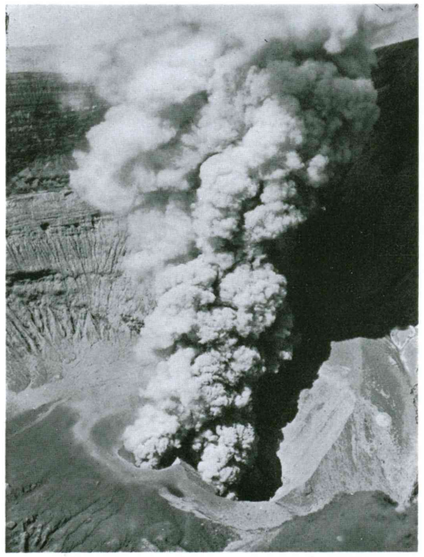


FROM TOKYO BY / **A**: Train / 26 h 33 m
B: Plane / 4 h 20 m
Train / 4 h 05 m
} Total / 8 h 25 m

HOTEL / Total 5 / Japanese 4 / Western 0 / J+W 1

▼ *Aso-san; central cones*



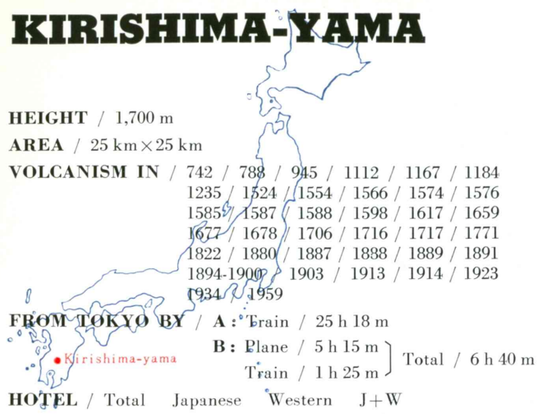


▲ *Aso-san; new crater*

▲ *Aso-san; crater*

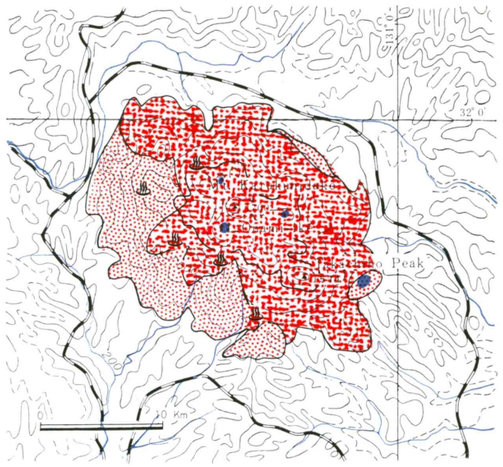
◀ *Aso-san; crater-wall*

KIRISHIMA-YAMA



HEIGHT / 1,700 m
AREA / 25 km×25 km
VOLCANISM IN / 742 / 788 / 945 / 1112 / 1167 / 1184
1235 / 1524 / 1554 / 1566 / 1574 / 1576
1585 / 1587 / 1588 / 1598 / 1617 / 1659
1677 / 1678 / 1706 / 1716 / 1717 / 1771
1822 / 1880 / 1887 / 1888 / 1889 / 1891
1894-1900 / 1903 / 1913 / 1914 / 1923
1934 / 1959
FROM TOKYO BY / **A :** Train / 25 h 18 m
B : Plane / 5 h 15 m
Train / 1 h 25 m
} Total / 6 h 40 m

HOTEL / Total	Japanese	Western	J+W
5	3	0	2

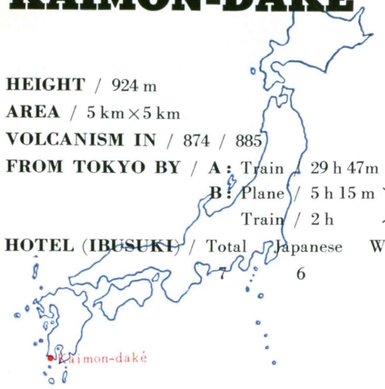


Legend
Recent lavas
Neogene lavas
Hot spring

◀ *Kirishima ; Ohachi and Takachiho Peak*

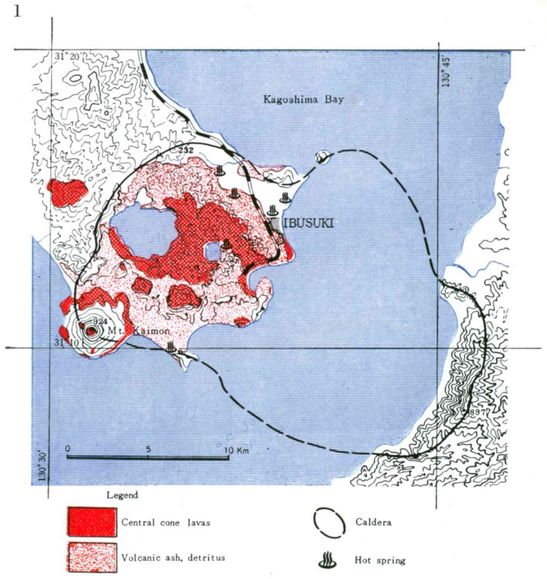
▼ *Kirishima ; Karakuni-dake and Lake Onami-ike*

KAIMON-DAKE



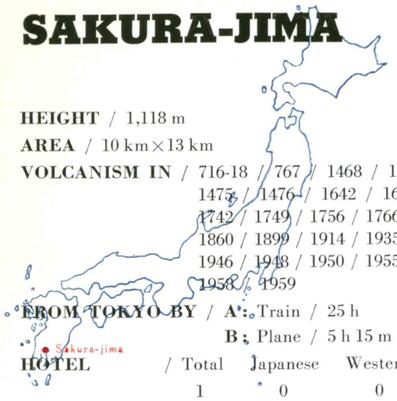
HEIGHT / 924 m
AREA / 5 km×5 km
VOLCANISM IN / 874 / 885
FROM TOKYO BY / **A :** Train / 29 h 47m
B : Plane / 5 h 15 m
Train / 2 h
} Total / 7 h 15 m

HOTEL (~~IBUSUKI~~) / Total	Japanese	Western	J+W
7	6	0	1



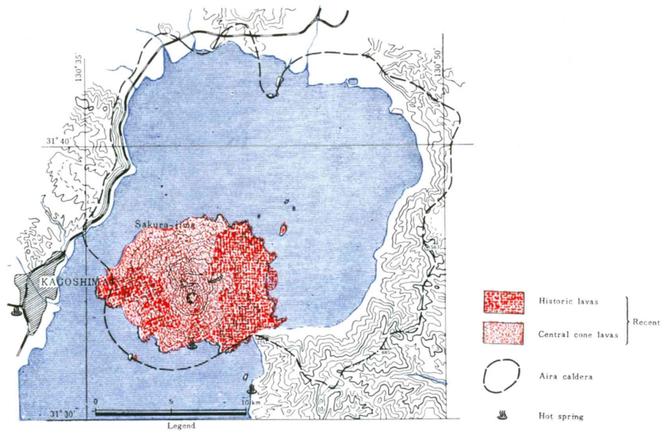
▼ *Kaimon-dake*

SAKURA-JIMA



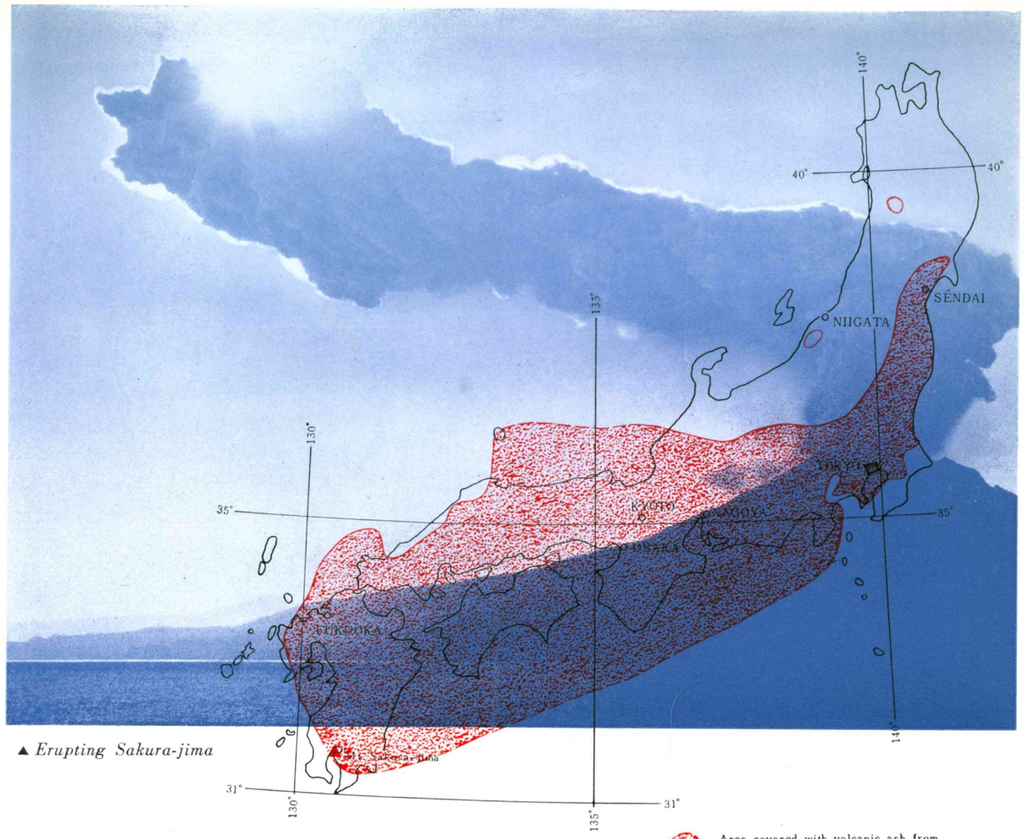
HEIGHT / 1,118 m
AREA / 10 km×13 km
VOLCANISM IN / 716-18 / 767 / 1468 / 1471 / 1473
1475 / 1476 / 1642 / 1670 / 1706
1742 / 1749 / 1756 / 1766 / 1779-99
1860 / 1899 / 1914 / 1935 / 1938-42
1946 / 1948 / 1950 / 1955-56 / 1957
1958 / 1959
FROM TOKYO BY / **A**: Train / 25 h
B: Plane / 5 h 15 m

HOTEL /	Total	Japanese	Western	J+W
	1	0	0	1
〈**KAGOSHIMA**〉	20	14	0	6



▼ *Sakura-jima; 1914 Lava connecting old island with mainland*

▲ *Crater wall of Sakura-jima*



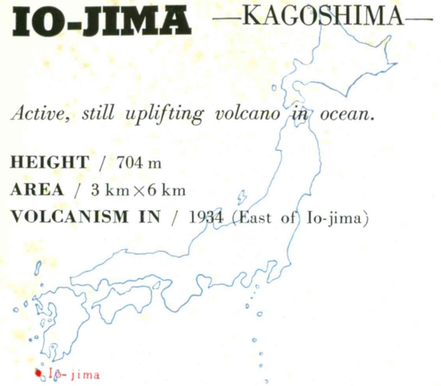
▲ *Erupting Sakura-jima*

Area covered with volcanic ash from Mt. Sakura-jima at great eruption on 12 January, 1914

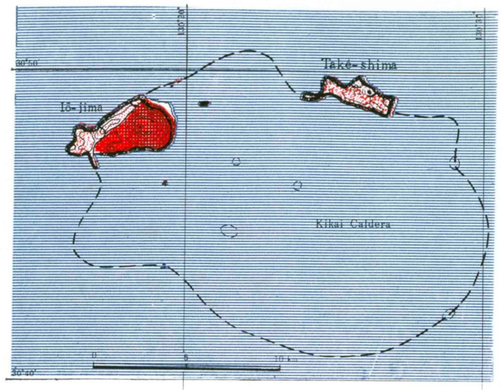
IO-JIMA —KAGOSHIMA—

Active, still uplifting volcano in ocean.

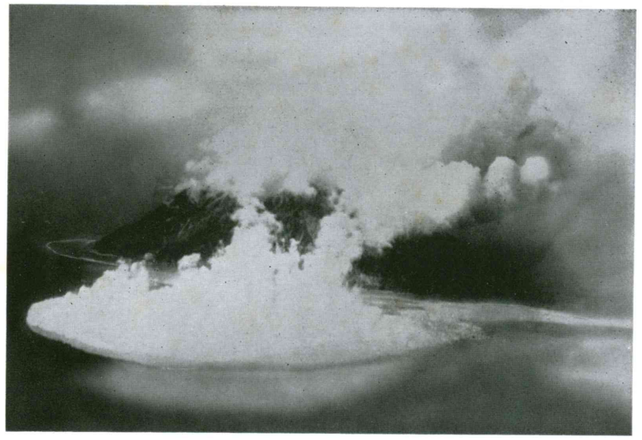
HEIGHT / 704 m
AREA / 3 km×6 km
VOLCANISM IN / 1934 (East of Io-jima)



▼ *Submarine eruption near Io-jima (in background) 10.20 AM, 10 October, 1934 Photo by Warship "Hyuga", Imperial Navy of Japan.*



Legend
- Central cone lava
- Somma lava
- Older lava



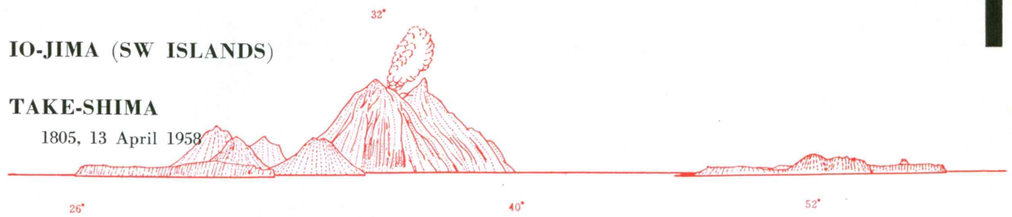
▼ *Io-jima; wall of Kikai caldera*

SOUTH WESTERN VOLCANIC ISLANDS

IO-JIMA (SW ISLANDS)

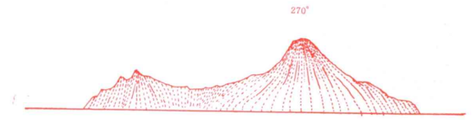
TAKE-SHIMA

1805, 13 April 1958

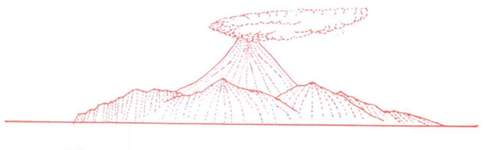


NAKANO-SHIMA

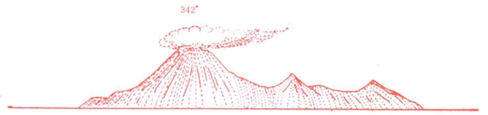
Highest peak: on-take, 980 m
0650, 17 April 1958
(Time of sketching)



0815, 17 April 1958

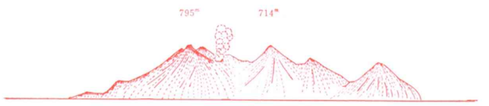


1000, 17 April 1958

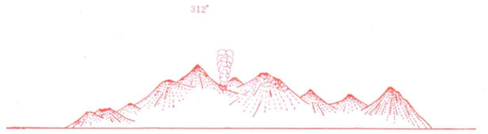


SUWANOSE-JIMA

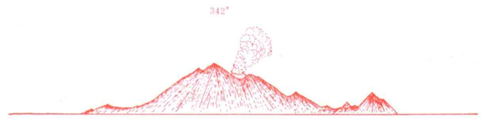
0815, 17 April 1958



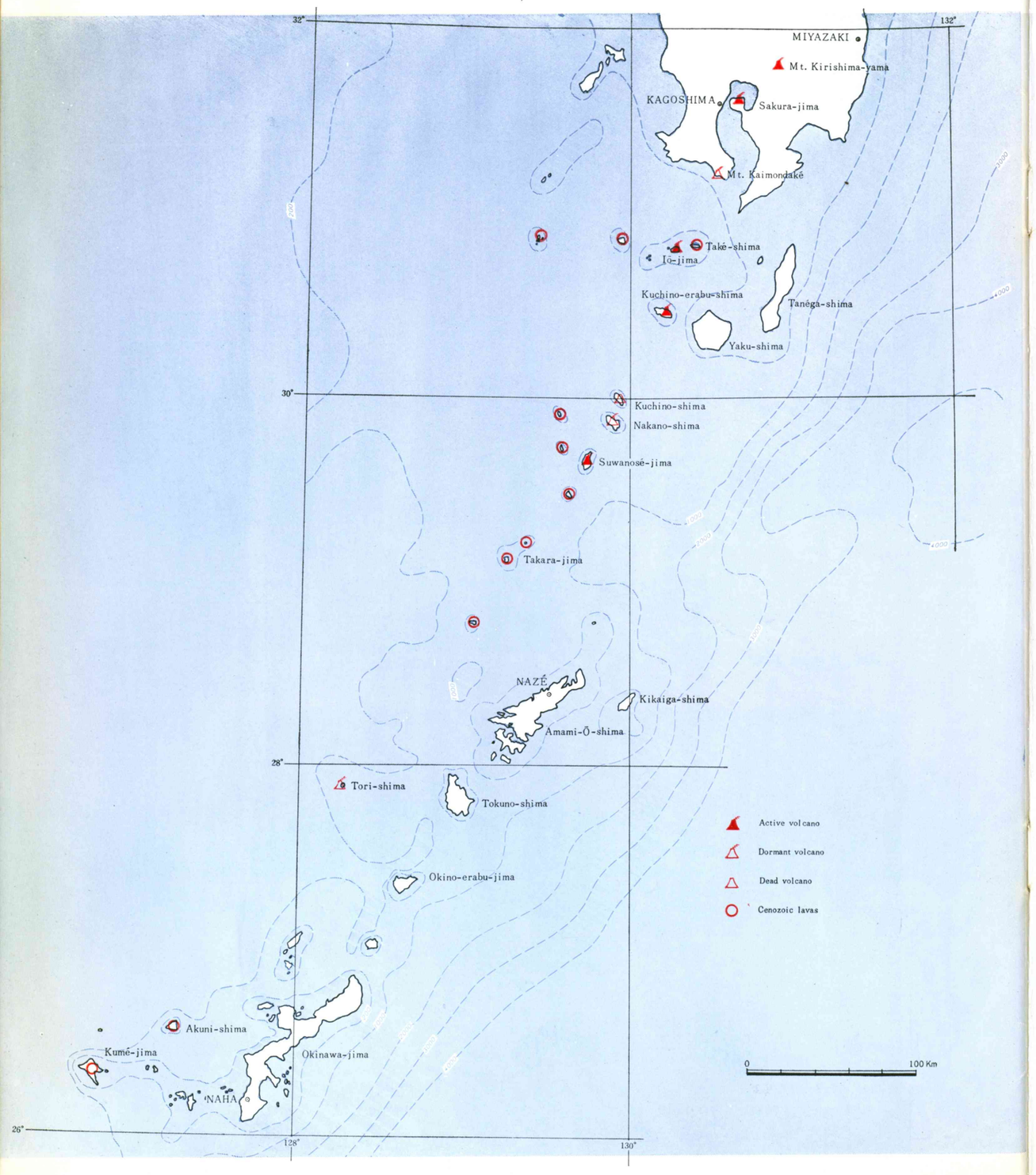
1000, 17 April 1958

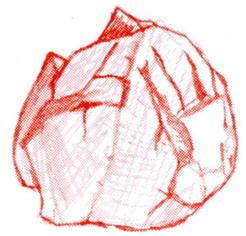


1145, 17 April 1958



SOUTHWESTERN VOLCANIC ISLANDS





Volcanic Bomb
Sakura-jima

Gratitude to

Outside information sources : / Geographical Survey Institute of Japan / Hokkaido Government Office Hydrographical Office / Imperial Earthquake Investigation Committee / Japan Meteorological Agency Ministry of Health and Welfares / National Parks Association / Volcanological Society of Japan

In the "Catalogue of the Active Volcanoes of the World" compiled by the International Association of Volcanology, International Union of Geodesy and Geophysics (IUGG), volcanoes are classified as active volcanoes or non-active ones according to their activity. But, here the conventional classification is adopted. "Active" means here that the volcano has erupted during these fifty years and "Dormant" means that the volcano has one or more records of eruption in the historical time.

In consideration of the above-mentioned points and according to the Table of Volcanic Activity during 1910-1959 (mimeograph, May 31, 1960) listed by Japan Meteorological Agency, the marks on the index map are better corrected and added as follows:

Number	Name		Correct
10	Meakan-dake	dormant	active
20	Yake-yama (Akita)	dormant	active
24	Sukawa-dake (Kurikoma-dake)	dormant	active
27	Adatara-yama	active	dormant
30	Shirane-san (Nikko)	dormant	active
54	Unzen-dake	active	dormant
62 (add)	Iō-Tori-shima		active

Tokyo Geographical Society