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## The Fusulinacean Zones of Japan

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## R. TORIYAMA

The Fusulinacean Zones of Japan Figs. 1-11 Correlation charts 1-2

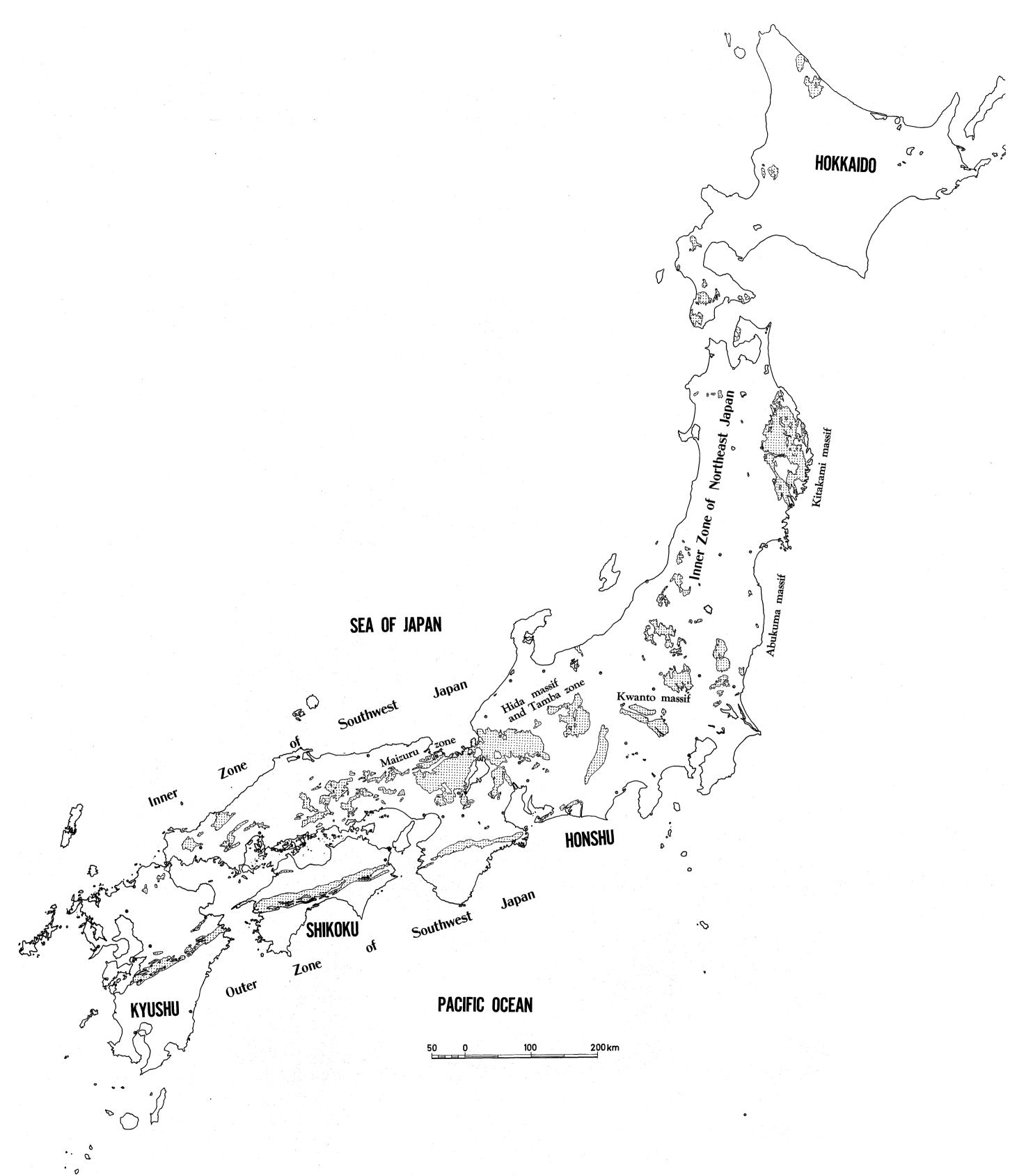


Fig. 1. Distribution of the Carboniferous and the Permian formations in Japan.

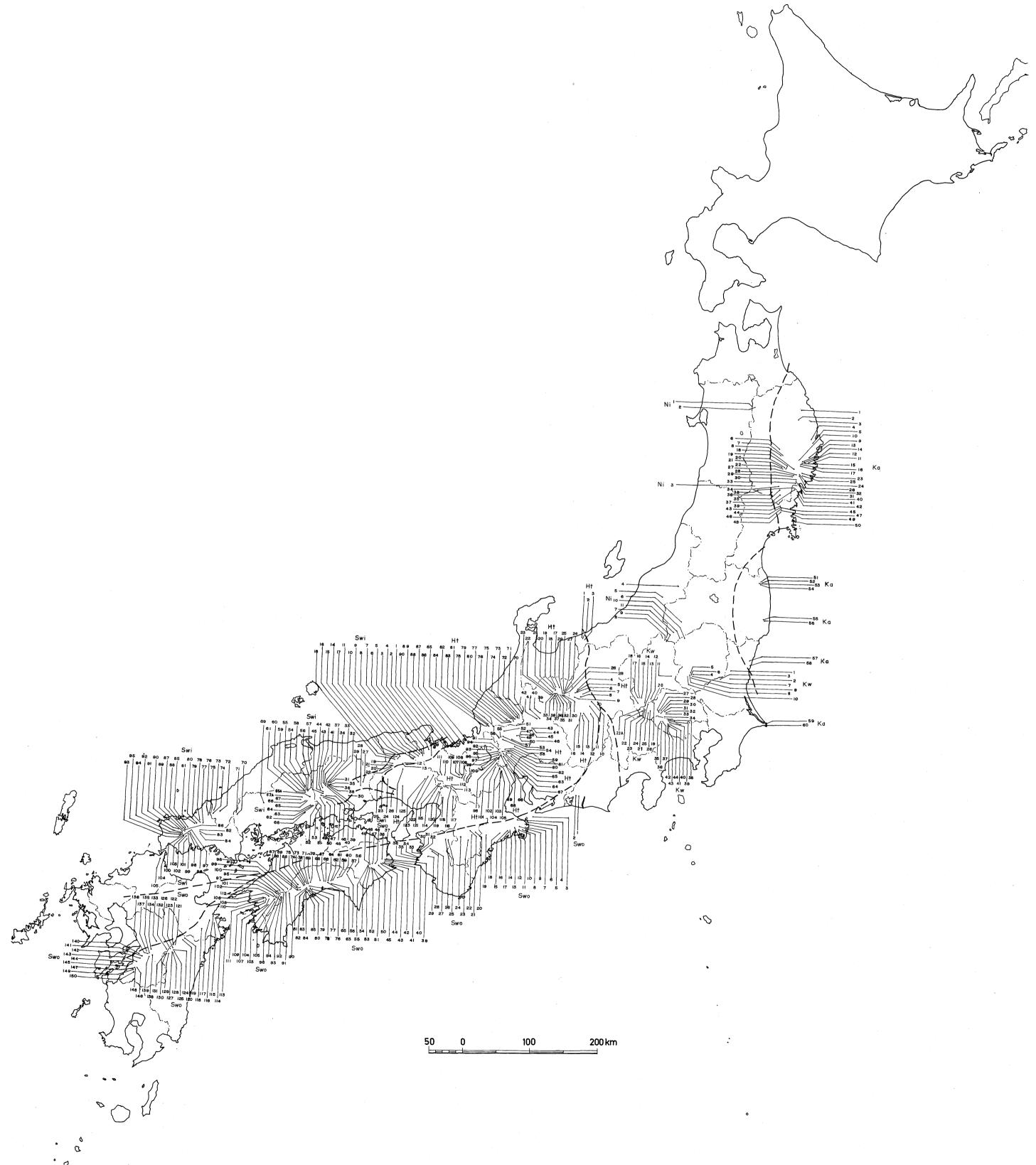


Fig. 2. Location of the fusulinacean-bearing strata.

Chart 1. Correlation chart of the Middle and the Upper Carboniferous in Japan

G=Group; Sg=Subgroup; F=Formation.

 $Amygd=Amygdalophyllum; \ Clisio=Clisiophyllum; \ Diphy=Diphyphyllum; \ Endost=Endostaffella; \ Est=Eostaffella; \ Flla=Fusulinella; \ Fna=Fusulina; \ Keichou=Kueichouphyllum; \ Mil=Millerella; \ Parastf=Parastaffella; \ Prf=Profusülinella; \ Psdendo=Pseudoendothyra; \ Pss=Pseudoschwagerina; \ Pst=Pseudostaffella; \ Stf=Staffella; \ Stylid=Stylidophyllum; \ Tr=Triticites; \ Wd=Wedekindellina$ 

PERMIAN System U В 0 Α Series Upper Lower М d Lower d е Sakamotozawan Akiyoshian Kurikian Hikawan Onimaruan Kamitakaran Atetsuan Stage Genus zone Fusulina (Beedina) Pseudo schwager i na Triticites Profusulinella Fusulinella Millerella - Eostaffella Fna. cf. kanmerai Amatsuki Flla, ozawai c Tobiishi Kakisako 3 Y ay amadak e Limestone Mil. japonica Yatsushiro-Kuma Fna Fna Wd f pseudosphaeroidea Fila sp. 0 3 ohtanii -gracilis higoensis prolifica ٥f Yuzuruha Kuraoka Diphy, - Mil. sp. Katauchi Usuki North Shogase Flla prolifica Tr. yayamadakensis Ryuzen belt Ryuzen Flla. pseudobocki Xid. I ta d origawa Kurosegawa It2 Miyanokuchi F Miyanokuchi Tr matsumotoi var Daigo õ Anan ĕ × Flla. hirokoae Flla.bocki-prolifica G h m FIIa. Fila. Tr. simplex Mediocris mediocris Mil. sp. A Pst. antiqua Prf. beppensis implica ta biconica Akiyoshi Clisiophyllum Clisiophyllum Nagatophyllum satoi Stylidophyllum sp. H a n d a Limestone Handa ? + Tr. ozawai Fila. eopulchra Oda Tsuzumigatake (Fut**agam**i) Higashi - Uyama G J Tamebira Ф Taishaku Pst. antiqua Prf. rhomboides Fila. biconica Fna. cf. girtyi Tr. nakatsugawensis Mil sp. A (Tameshig Soryo - Sanwa Joe - Yakawa Kurohagi Semi - schist F South Nariwa 0 Oga Psf. Mil. Prf. Flla. J k a m Est. Psdendo Sabushi G Mitsudo Iwamoto Nagoe Kodan Atetsu ٥f Qf. longissima Mediocris sp. A Pst. antiqua Prf. toriyamai Flla, imamurai Est sp. A ultima 0 Onishi F Ibukiyama Pss. sp. Tr. cf. matsumotoi Tr. ozawai Flla. biconica Wed. prolifica Ng. satoi S c Yuo Takakura Akuda F Akiyama F Oppara Oppara -5 Hachiman Fila. bocki Fina. quasicylindrica Tr. opparensis Tr. kiyomiensis Pss. Isetoge F Kamianama Ф Flla. cf. biconica s (Kunimiyama F) — (Hongo F) Hongo -Flla. ? A ra kigawa o ● Kueich. Diphy. × 3 Shimozaisho Itoshiro Fila.kami - Fila.bocki Fna. Tr. exsculptus Mil. bigemicula - Psst. kanuma Pss. mori kawai Est. kanmerai fukujiensis Tr. hidensis σ 0 C<sub>3</sub> ? C2  $C_1$ 0 m i 3 FIIa. biconica Fna girtyi Tr. cullomensis Amygd giganteum Stylid sp. Mil sp. Shiroi Shiroi Sakahara Kashiwagi Kannagawa Fila, bocki Fna girtyi Psf. vulgaris Tatoroyama Tatoroyama Pss. orientale Futagoyama Futagovama Fna. ichinotaniensis Tr. yayamadakensis Ryokami Ishifune Nakatsugawa Fna. quasicylindrica Tr. spp. FIIa. Raidenyama - Shiromaru Tamagawa Ashio Kawamo Omama - machi × Amygd naosoidea Kasama Nanaai Toriashi massif Ayusawa F Kueichou Diphy. Uwagaya Tateishi: Soma Pss. Mil sp. Takezawa F Maiya Nagasaka Kueichou etc. Onimaru Nagaiwa Setamai tozawa Hikoroichi Mil. Parastf. Eostf. Prf. Hitokabe Shiba Tochu No. Kogawa Kamaishi Pss. Mil. sp. Penchian Taiyuan North Huanglungi'an Mapingian South Kasimobsk, Gzelian Orenburg. id e Asselian Visean (upper) Bashikirian Russia Westphai Namurian Stephanian Visean Europe PENNS PERMIA N Y L V A N I MISSISSIPPIAN Wolcampian 0 Kawvian Tennese e a n Ardian North America

Desmoinesian

Derryan

Chesterian

Missourian

Virgilian

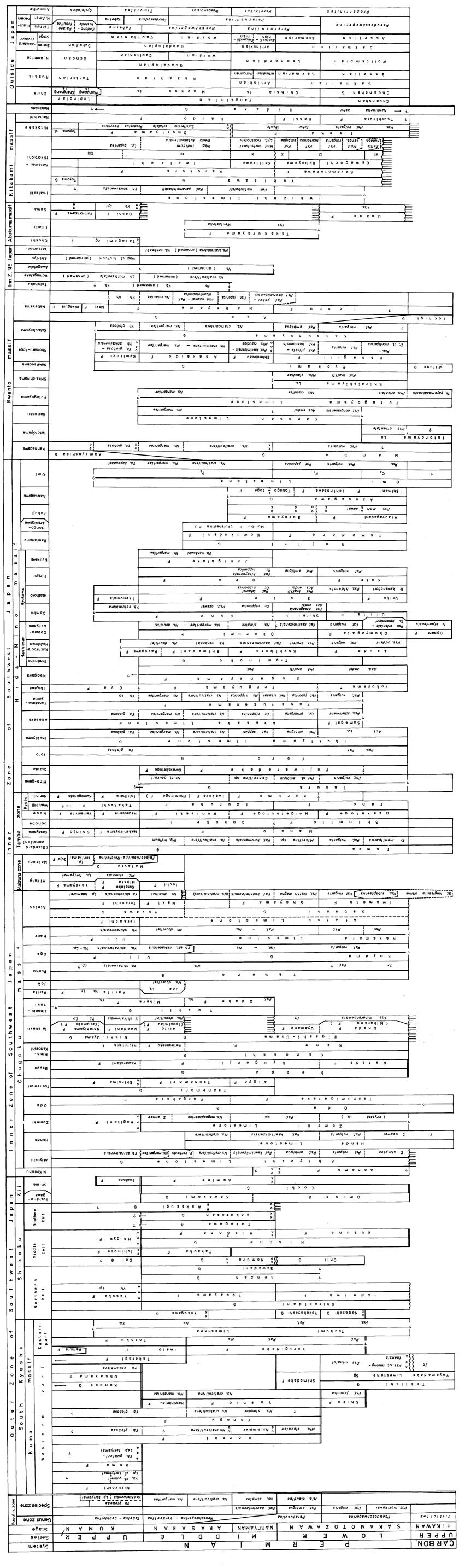


Chart 2. Correlation chart of the Permian in Japan

G=Group; Sg=Subgroup; F=Formation

Acs=Acervoschwagerina; Cc=Cancellina; Lp=Lepidolina; Lyt=Lyttonia; Mis=Misellina; Mad=Monodiexodina; Ns=Neoschwagerina; Paf=Paratusulina; Pas=Paraschwagerina; Plf=Paleofusulina; Psd=Pseudoschwagerina; Ps=Pseudoschwagerina; Ps=Pseudoschwagerina; Ps=Pseudoschwagerina; Tr=Triticites;

Vb=Verbeekina; Wentz=Wentzelella; Wg=Waagenophyllum; Yb=Yabeina

O conglomerate

Fault relation

and lava

meonformity



Fig. 3. Distribution of the zone of Millerella in Japan.

• Millerella fauna

- × Coral fauna



Fig. 4. Distribution of the zone of Profusulinella in Japan.  $\times$  uncertain or presumable occurrence



Fig. 5. Distribution of the zone of Fusulinella in Japan.

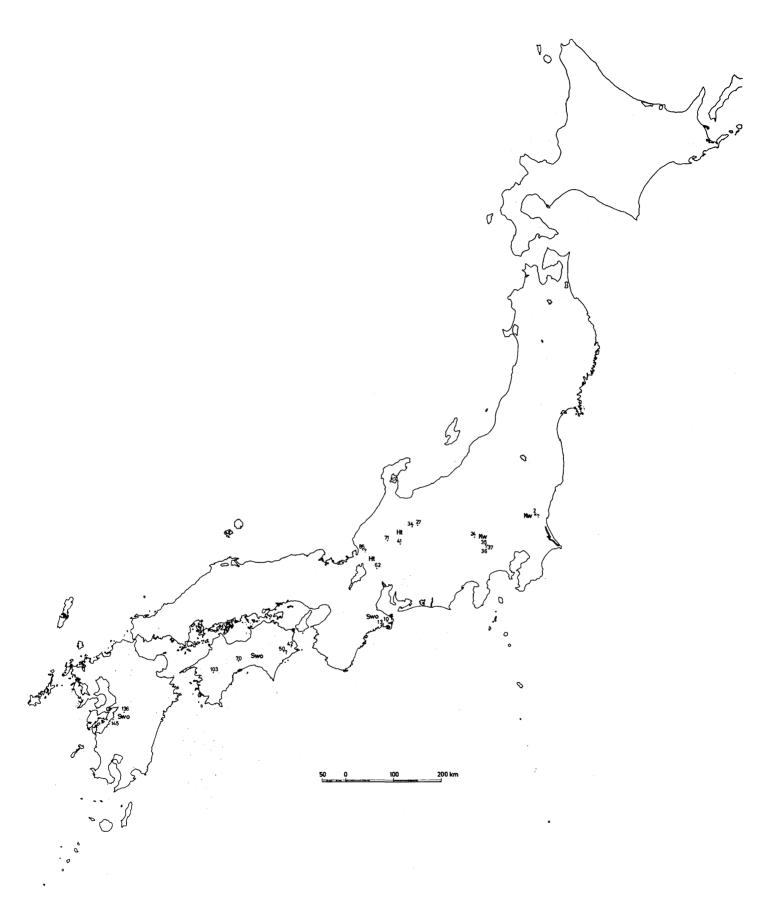


Fig. 6. Distribution of the zone of Fusulina in Japan.

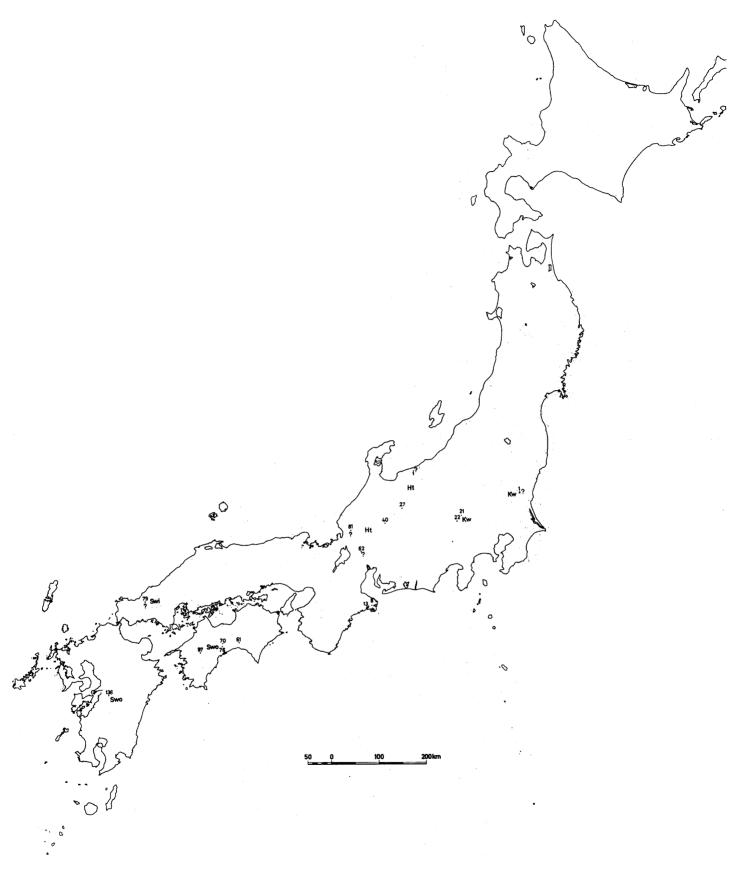


Fig. 7. Distribution of the zone of *Triticites* in Japan. × uncertain or presumable occurrence



Fig. 8. Distribution of the zone of *Pseudoschwagerina* in Japan. × uncertain or presumable occurrence



- conglomerate-bearing formation
   uncertain or presumable occurrence



- conglomerate-bearing formation
   uncertain or presumable occurrence

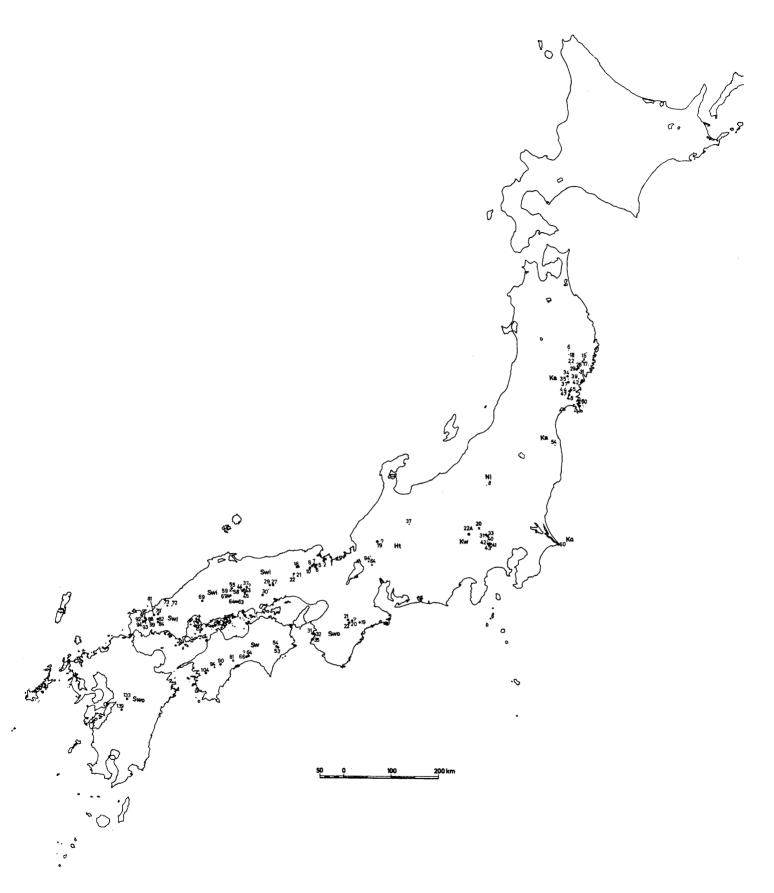


Fig. 11. Distribution of the zone of Yabeina-Lepidolina in Japan.
⊙ conglomeratic facies or the formation having partly conglomeratic facies × uncertain or presumable occurrence