

## 日本における熱帯果実の漂着記録

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journal or publication title	The journal of phytogeography and taxonomy (The Journal of Geobotany)
volume	29
number	1
page range	67-69
year	1981-05-15
URL	<a href="http://doi.org/10.24517/00056351">http://doi.org/10.24517/00056351</a>



## Hiroki NAKANISHI\* : Notes on Tropical Drift Fruits on the Coast in Japan

中西弘樹\* : 日本における熱帯果実の漂着記録

### Introduction

It is well known that ocean currents carry seeds and fruits of tropical plants for very great distances and in particular to the coast of far distant northern areas. Many reports about tropical plants disseminules washed ashore on the coast of Florida and northwestern Europe have been published since the seventeenth century (COOK 1910; GUPPY 1917; GUNN 1968, 1977; NELSON 1978). These respective beaches are influenced by the Gulf Stream and North Atlantic Current which deposit tropical debris on their beach (GUNN 1968).

The Kuroshio Current derived from the North Equatorial Current to the east of the Philippines flows along the eastern side of the Asian Continent, and may carry a good deal of tropical debris to Japan. However, few efforts have been made to record stranded seeds and fruits on the coast of Japan, except ISHII (1973, 1976) who did reported those found in northern Kyushu.

The present note aims to record drift fruits collected on the coast in Japan during Jan. 1979 to Feb. 1981.

I wish to express my sincere thanks to Dr.

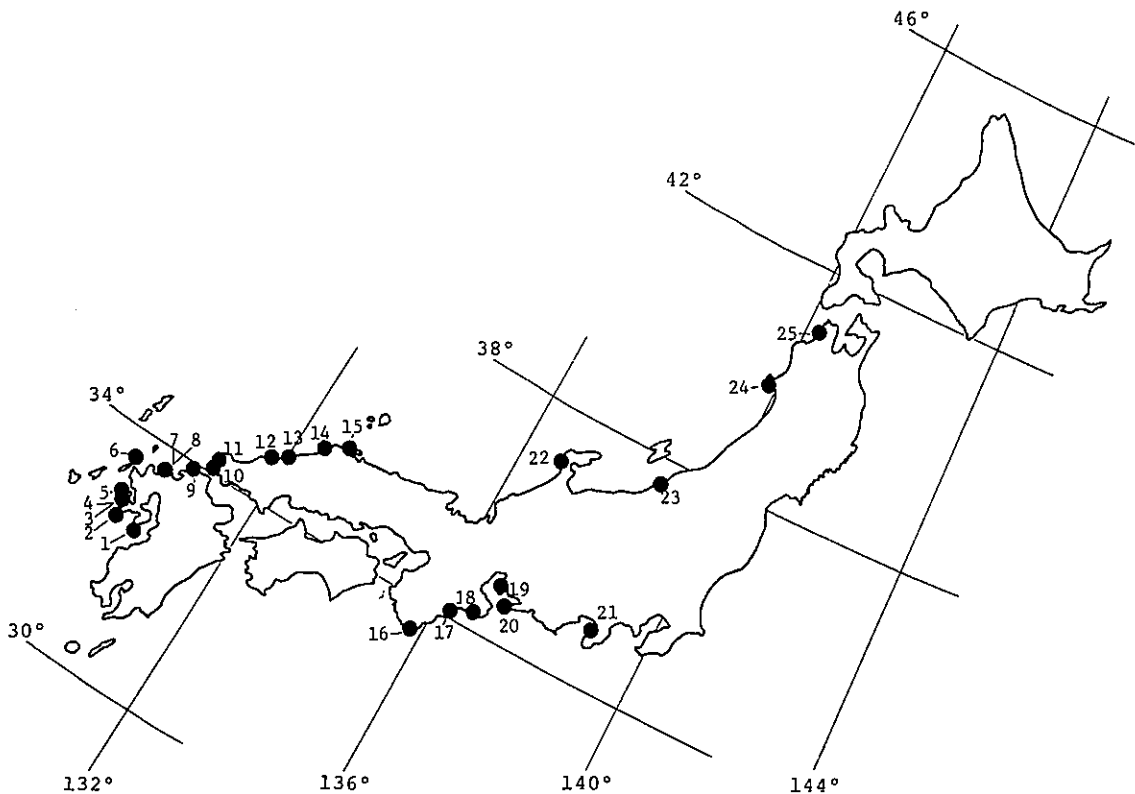


Fig. 1. Map showing the localities where drift fruits were collected.

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H. ANDO of Hiroshima University who read the manuscript and gave useful advice.

### Records of tropical drift fruits

Localities (Fig. 1) and the drift fruits collected are listed below. The number of specimens collected are listed after each plant name. *Cocos nucifera* was usually found on the beach as a piece of husk. Such a piece was counted as one specimen, and is indicated by the letter "H" before the number of specimens.

1. Tomioka, Reihoku-cho, Amakusa-gun, Kumamoto Pref.; *Cocos nucifera* H2, *Barringtonia asiatica* 1 (Aug. 16. 1980).

2. Nomo to Kurohama, Nomozaki-cho, Nishisonogi-gun, Nagasaki Pref.; *Nyssa fruticans* 1 (Feb. 11. 1979), 1 (Feb. 15. 1981); *C. nucifera* H1 (Feb. 11. 1979), H1 (Jan. 4. 1981).

3. Takero, Sanwa-cho, Nishisonogi-gun, Nagasaki Pref.; *Heritiera littoralis* 1 (Jan. 4. 1981).

4. Mietago, Nagasaki City, Nagasaki Pref.; *B. asiatica* 1 (Feb. 16. 1980), 1 (Aug. 14. 1980), 1 (Jan. 3. 1981); *C. nucifera* H1 (Nov. 4. 1980).

5. Syutsuzu to Kurohama, Sotome-cho, Nishisonogi-gun, Nagasaki Pref.; *C. nucifera* H1 (Jan. 3. 1981); *N. fruticans* 1, *B. asiatica* 1 (Feb. 16. 1981).

6. Magaribana, Oshima-mura, Kitamatsuura-gun, Nagasaki Pref.; *C. nucifera* H6, *B. asiatica* 1 (June 14. & 15. 1980).

7. Keya to Hijinomatsubara, Shima-cho, Itoshima-gun, Fukuoka Pref.; *C. nucifera* 3 + H6 (Feb. 4. 1980), 1 + H1 (Feb. 18. 1981); *Terminalia catappa* 1, unidentified fruit 1 (Feb. 4. 1980).

8. Nishinoura, Nishi-ku, Fukuoka City, Fukuoka Pref.; *C. nucifera* 1 (Feb. 18. 1981).

9. Natsuigahama, Ashiya-cho, Onga-gun, Fukuoka Pref.; *B. asiatica* 1 (Oct. 10. 1979).

10. Yoshimo to Fukue, Shimonoseki City, Yamaguchi Pref.; *C. nucifera* 1 + H3

(Mar. 20. 1980), 1 + H1 (Jan. 7. 1981), H6 (Feb. 13. 1981); *N. fruticans* 2 (Mar. 20. 1980), 1 (Jan. 7. 1981), 1 (Feb. 13. 1981); *H. littoralis* 6 (Jan. 7. 1981), 5. (Feb. 13. 1981), *Xylocarpus granatum* 3 (Jan. 7. 1981), 3 (Feb. 13. 1981); *Cerbera manghas* 1 (Jan. 7. 1981); *Barringtonia racemosa* 1 (Feb. 13. 1981).

11. Aoi, Toyoura-cho, Toyoura-gun, Yamaguchi, Pref.; *C. nucifera* H2 (May 6. 1980).

12. Kibu, Masuda City, Shimane Pref.; *C. nucifera* H1 (Feb. 11. 1981).

13. Matsubara, Misumi-cho, Naka-gun, Shimane Pref.; *N. fruticans* 1, *H. littoralis* 1 (Feb. 11. 1981).

14. Ohira, Oda City, Shimane Pref.; *N. fruticans* 1 (May 18. 1980).

15. Etomo, Kashima-cho, Yatsuka-gun, Shimane Pref.; *C. manghas* 1 (May 17. 1980).

16. Shionomisaki, Kushimoto-cho, Nishimuro-gun, Wakayama Pref.; *C. nucifera* H3 (July 24. 1979).

17. Ohzirohama, Miyama-cho, Kitamuro-gun, Mie Pref.; *C. nucifera* 1, *N. fruticans* 1, *B. asiatica* 1 (Aug. 29. 1980).

18. Shiogamahama, Nanto-cho, Watarai-gun, Mie Pref.; *B. asiatica* 2, *Garcinia mangostana* 1, unidentified fruit 1 (Aug. 4. 1979).

19. Onizaki to Ohnomachi, Tokoname City, Aichi Pref.; *N. fruticans* 1 (Jan. 1. 1979), 27 (Mar. 24. & 25. 1979), 8 (Apr. 2. 1979), 1 (July 22. 1979), 1 (July 27. 1979), 1 (Dec. 30. 1979), 1



Fig. 2. Fruits of *Nyssa fruticans* washed ashore on the coast of Tokoname City, Aichi Prefecture (Mar. 24. & 25. 1979).

(Jan. 1. 1980), 9 (Mar. 24. 1980), 10 (Mar. 26. 1980), 5 (July 28. & 29. 1980); *C. nucifera* H1 (Jan. 1. 1979), H2 (Mar. 24. 1979), H5 (Apr. 2. 1979), H1 (July 27. 1979), H1 (Jan. 1. 1980), H1 (Mar. 26. 1980), H1 (July 28. 1980), H1 (July 30. 1980), H1 (Aug. 1. 1980); *C. manghas* 1 (Mar. 24. 1980); unidentified fruit 1 (Apr. 2. 1979).

20. Irakomisaki to Nishihama, Atsumi-cho, Atsumi-gun, Aichi Pref.; *C. nucifera* 1 + H1 (July 30. & 31. 1979), 1 + H5 (Mar. 25. 1980), H2 (Aug. 26. 1980); *N. fruticans* 1 (July 30. 1979), 6 (Mar. 25. 1980); *G. mangostana* 4 (Mar. 25. 1980); *X. granatum* 1 (July 31. 1980), 1 (Aug. 26. 1980).

21. Mihama, Heda-cho, Tagata-gun, Shizuoka Pref.; *C. nucifera* H1 (Apr. 1. 1979).

22. Shibagaki, Hakui City, Ishikawa Pref.; *X. granatum* 1 (July 27. 1980).

23. Maze, Iwamuro-mura, Nishikanbara-gun, Niigata Pref.; *X. granatum* 1 (July 25. 1980).

24. Kanegasaki to Kamo, Oga City, Akita Pref.; *C. nucifera* H1, *N. fruticans* 1, *H. littoralis* 1 (July 24. 1980).

25. Motowaki, Ichiura-mura, Kitatsugaru-gun, Aomori Pref.; *C. nucifera* H3 (July 22. 1980).

Thirteen different species of drift fruits which washed ashore on the coast of Japan were found. Nine of these species were identified: *Nypa fruticans*, *Cocos nucifera*, *Heritiera littoralis*, *Barringtonia asiatica*, *B. racemosa*, *Xylocarpus granatum*, *Garcinia mangostana*, *Cerbera manghas*, and *Terminalia catappa*. The total number of specimens collected was 201. The most frequent drift fruits were those of *N. fruticans* (83 specimens). This species was followed by *C. nucifera* (10 fruits and 62 pieces of husk), *H. littoralis* (14), *B. asiatica* (10) and *X. granatum* (10). These fruits are more frequently found from winter to spring when the prevailing gales blow.

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## 摘 要

海流によって熱帯の果実や種子が運ばれて来ることはよく知られているが、日本においてはその報告が比較的少なく、研究もほとんど行われていない。

筆者は1979年1月から1981年2月までの間に、日本各地の海岸から201個の漂着果実を集めることができた。同定された種類はニッパヤシ、ココヤシ、サキシマスオウノキ、ゴバンノアシ、ハウガンヒルギ、マンゴスチン、ミフクラギ、モモタマナ、サガリバナの9種であり、その他不明のものが4種あった。一番多いものはニッパヤシで83個、次いでココヤシの72個（そのうち10個だけが完全な果実で、他は果皮のみ）であり、この2種が漂着果実として最もふつうである。これらの果実は冬から春にかけてよく漂着する。

Received March 8, 1981

兵庫県生物学会編：播磨の植物 神戸新聞出版センター（〒651 神戸市中央区八幡通4-1）昭56. 2. 25. 発行。B 6版, 347頁。定価1300円。

兵庫県生物学会では、これまでに“兵庫の自然”“新兵庫の自然”など、県下の生物相を紹介する書を編集したが、いづれも神戸が中心になり、兵庫県でもっとも広い面積をもち、多くの貴重な生物を所蔵しながら播磨がおきざりになって来ている。したがって、今回、この書が必然的に生れたわけだが、内容は40名をこえる多くの方々の手になるもので、それだけに編集には苦心されたことであろう。（里見信生）