Japan Geoscience Union Meeting 2015

(May 24th - 28th at Makuhari, Chiba, Japan) ©2015. Japan Geoscience Union. All Rights Reserved.



ACG30-P08

会場:コンベンションホール

## 気候特性が異なる二地点における様々な植物の開花日・発芽日の経年変動性の違い Differences in inter-annual variation in flowering and budding dates at two different climatological sites in Japan

井上 智晴<sup>1\*</sup>;永井信<sup>1</sup> INOUE, Tomoharu<sup>1\*</sup>; NAGAI, Shin<sup>1</sup>

1 独立行政法人 海洋研究開発機構

<sup>1</sup>Japan Agency for Marine-Earth Science and Technology

To investigate the relationship between the inter-annual variability of the flowering and budding phenology and their geographical characteristics in Japan, we analysed the first flowering and budding dates of various plant species during winter and spring (Japanese camellia, persimmon, ginkgo, mulberry, narcissus, cherry, Japanese apricot, rhododendron, dandelion, Japanese wisteria, and Japanese lawn grass) from 1953 to 2011 at two different climatological study sites (Takayama, a northern colder site; Gifu, a southern warmer site). We found that (1) fewer than half of the species showed a trend of earlier phenology at both sites, (2) mean phenological dates at Gifu were distributed at wider range (DOY [day of year] 21.9 to 145.2) than those at Takayama (DOY 95.5 to 165.5), and (3) the species with earlier flowering or budding at Gifu showed higher variability and advanced phenology compared with plants that had later flowering and budding. These findings (a) suggest the possibility that flowering and budding phenology in central Japan has a localized response to increasing air temperature and (b) suggest the importance of the long-term and continuous observation of flowering and budding phenology for a range of plant species at multiple sites (Inoue and Nagai, *under review*).

キーワード: 生物季節観測, 開花日, 発芽日 Keywords: phenological observation, flowering date, budding date