

6. 成果発表

6.1. 論文等

気象研究所の職員が、平成 25 年度に発表した原著論文や報告書、著書、翻訳、解説などの著作物について、単独・共著の区別なく掲載した。ただし、口頭発表に伴う著作物のうち学会予稿集など簡易なものについては除いている。

各著作物の情報は、整理番号、著者、発表年、タイトル、掲載誌(書名)、掲載巻、掲載頁、doi(オンライン論文誌)または ISBN(著書(分担執筆含む))の順で掲載した。整理番号の後ろに「*」を付した著作物は、査読付きであることを示している。

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| 青木重樹 | 1 | Katsumata, A., H. Ueno, S. Aoki, Y. Yoshida and S. Barrientos, 2013: Rapid magnitude determination from peak amplitudes at local stations. <i>Earth, Planets and Space</i> , 65 , 843-853. |
| 青木輝夫 | 1* | Aoki, T., K. Kuchiki, M. Niwano, S. Matoba, J. Uetake, K. Masuda and H. Ishimoto, 2013: Numerical Simulation of Spectral Albedos of Glacier Surfaces Covered with Glacial Microbes in Northwestern Greenland. <i>RADIATION PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)</i> , Robert Cahalan and Jurgen Fischer (Eds), <i>AIP Conf. Proc.</i> , 1531 , 176-179, doi:10.1063/1.4804735. |
| | 2* | Hori, M., T. Tanikawa, Te. Aoki, A. Hachikubo, K. Sugiura, K. Kuchiki and M. Niwano, 2013: Possibility to discriminate snow types using brightness temperatures in the thermal infrared wavelength region. <i>RADIATION PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)</i> , Robert Cahalan and Jurgen Fischer (Eds), <i>AIP Conf. Proc.</i> , 1531 , 316-319, doi:10.1063/1.4804770. |
| | 3* | Hori, M., Te. Aoki, T. Tanikawa, A. Hachikubo, K. Sugiura, K. Kuchiki and M. Niwano, 2013: Modeling angular dependent spectral emissivity of snow and ice in the thermal infrared atmospheric window. <i>Applied Optics</i> , 52 , 7243-7255, doi.org/10.1364/AO.52.007243. |
| | 4 | 上野健一, 藤田耕史, 青木輝夫, 竹内由香里, 川瀬宏明, 平沢尚彦, 東久美子, 本田明治, 山崎剛, 2013: Davos Atmosphere and Cryosphere Assembly (DACA-13) の報告. <i>雪氷</i> , 75 , 461-468. |
| | 5 | 青木輝夫, 2013: 「本だな」成瀬廉二著「南極と氷河の旅」. <i>天気</i> , 60 , 59-60. |
| | 6 | 青木輝夫, 大畑哲夫, 2013: 全球雪氷閣監視計画(GCW) の概要と第2回 CryoNet 会議の報告. <i>雪氷</i> , 75 , 199-204. |
| 青梨和正 | 1 | Origuchi, S., K. Aonashi and K. Okamoto, 2013: Displaced Ensemble Variational Assimilation Experiment using Brightness Temperatures of Microwave Imager. <i>CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling</i> , 43 , 1.09-1.10. |
| 青山道夫 | 1 | 青山道夫, 2013: 海洋モニタリングで考えるべきこと. <i>世界別冊「福島第一原発の汚染問題」</i> . |
| | 2 | Becker, S., D. Schuller, M. Miller, M. Aoyama, K. Sato and J. Swift, 2013: Use of reference materials for nutrients in seawater and comparability of nutrients in the world's oceans. |
| | 3 | 青山道夫, 2013: 超低レベル放射能測定: 少量表層海水および極深層海水試料への応用. <i>放射線</i> , 39(1) , 17-20. |
| | 4 | 青山道夫, 2013: 北太平洋全域への福島事故起源セシウム137の拡散: 事故後15ヵ月の間にどのように輸送されたのか. <i>日本水産学会誌</i> , 79(5) , 909-912, ISSN 0021-5392. |
| | 5 | 青山道夫, 2014: 「人類4度目の失敗」福島原発事故が引き起こした地球規模の海洋汚染. <i>世界別冊「福島第一原発の汚染問題」</i> . |
| | 6 | 青山道夫, 2013: 6.4 海洋生態系, 6.4.3 硝酸塩, リン酸塩, ケイ酸塩, 溶存酸素量濃度, 6章 淡水・海洋環境, 6.4.3 窒素・リン・ケイ酸態の栄養塩類濃度. <i>環境年表 25</i> ・ |

- 26年版, 464, ISBN978-4-621-08737-4.
- 7 Povinec, Pavel P., K. Hirose and M. Aoyama, 2013: Fukushima Accident: Radioactivity Impact on the Environment. *Fukushima Accident: Radioactivity Impact on the Environment*, 400P.
- 8* Povinec, P. P., M. Aoyama, D. Biddulph, R. Breier, K. Buessler, C. C. Chang, R. Golser, X. L. Hou, M. Jeskovsky, A. J. T. Jull, J. Kaizer, M. Nakano, H. Nies, L. Palcsu, L. Papp, M. K. Pham, P. Steier and L. Y. Zhang, 2013: Cesium, iodine and tritium in NW Pacific waters : a comparison of the Fukushima impact with global fallout. *Biogeosciences Discussion*, **10**, 5481-5496.
- 9* Tsumune, D., T. Tsubono, M. Aoyama, M. Uematsu, K. Misumi, Y. Maeda, Y. Yoshida and H. Hayami, 2013: One-year, regional-scale simulation of ¹³⁷Cs radioactivity in the ocean following the Fukushima Daiichi Nuclear Power Plant accident. *Biogeosciences Discussion*, **10**, 6259-6314.
- 10* Povinec, P. P., M. Aoyama, D. Biddulph, R. Breier, K. Buessler, C. C. Chang, R. Golser, X. L. Hou, M. Jeskovsky, A. J. T. Jull, J. Kaizer, M. Nakano, H. Nies, L. Palcsu, L. Papp, M. K. P. P. Steier and L. Y. Zhang, 2013: Cesium, iodine and tritium in NW Pacific waters - a comparison of the Fukushima impact with global fallout. *Biogeosciences Discussion*, **10**, 6377-6416.
- 11 Povinec, P. P., M. Aoyama, J. Gastaud, Y. Hamajima, K. Hirose, M. Jeskovsky, I. Levy, J.A. Sanchez-Cabeza and I. Sykora, 2013: Distribution of tritium and ¹³⁷Cs in South Indian Ocean wates - implications of water transport processes. *Isotopes in Hydrology, Marine Ecosystems and Climate Change Studies - Proceedings of the International Symposium Held in Monaco, 27 March - 1 April 2011*, **1**, 89-95.
- 12 Hirose, K., M. Aoyama, J. Gastaud, M. Fukasawa, C.-S. Kim, I. Levy, P.P. Povinec, P. Roos, J.A. Sanchez-Cabeza and S.A. Yim, 2013: Plutonium in Southern Hemisphere ocean waters. *Isotopes in Hydrology, Marine Ecosystems and Climate Change Studies - Proceedings of the International Symposium Held in Monaco, 27 March - 1 April 2011*, **1**, 493-500.
- 13 Tsumune, D., M. Aoyama, K. Hirose, T. Tsubono, K. Misumi and Y. Yoshida, 2013: Global distributions of ¹³⁷Cs, ^{239,240}Pu and the ratio of ^{239,240}Pu/¹³⁷Cs in an ocean general circulation model. *Isotopes in Hydrology, Marine Ecosystems and Climate Change Studies - Proceedings of the International Symposium Held in Monaco, 27 March - 1 April 2011*, **2**, 493-499.
- 14 Aoyama, M., M. Fukasawa, Y. Hamajima, K. Hirose, T. Kawano, H. Nakano, P.P. Povinec, J.A. Sanchez-Cabeza and D. Tsumune, 2013: Inter and intra basin scale transport of ¹³⁷Cs in the Pacific Ocean. *Isotopes in Hydrology, Marine Ecosystems and Climate Change Studies - Proceedings of the International Symposium Held in Monaco, 27 March - 1 April 2011*, **2**, 571-578.
- 足立アホロ 1* Adachi, A., T. Kobayashi, H. Yamauchi and S. Onogi, 2013: Detection of potentially hazardous convective clouds with a dual-polarized C-band radar. *Atmos. Meas. Tech.*, **6**, 2741-2760, doi: 10.5194/amt-6-2741-2013.
- 2 Adachi, A., T. Kobayashi, H. Yamauchi and S. Onogi, 2013: Radar calibration using polarimetric observations with rain attenuation correction. *Extended abstract of the 36th Conference on Radar Meteorology*, 270.
- 足立光司 1* Adachi, K. and P.R. Buseck, 2013: Changes of ns-soot mixing states and shapes in an urban area during CalNex. *JGR*, doi:10.1002/jgrd.50321/abstract.
- 2* 五十嵐康人, 財前祐二, 足立光司, 梶野瑞王, 三上正男, 2013: 福島事故後のつくばにおける降下量, 大気中放射能濃度の推移. *Proceedings of the 14th Workshop on Environmental Radioactivity, KEK Proceedings, 2013-7 November 2013*, 35-39.
- 3* Adachi, K., M. Kajino, Y. Zaizen and Y. Igarashi, 2013: Emission of spherical cesium-bearing particles from an early stage of the Fukushima nuclear accident. *Scientific Reports*, **3**, 2554 (1-5) .
- 4* 足立光司, 2013: 電子線トモグラフィによるエアロゾル粒子の3次元形態解析. *エアロゾル研究*, **28-3**, 189-194.
- 足立恭将 1* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka,

- T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 2 足立恭将, 2013: 連載「気候科学が教えてくれること」第二回「地球温暖化がもたらす気候の変化」. 隔月刊「地球温暖化」, 7月号, 40-41.
- 安藤 忍 1* 安藤忍, 2013: ALOS「だいち」により観測された霧島山新燃岳山頂火口の変化について. *験震時報*, **77**, 97-110.
- 2* 鬼澤真也, 新堀敏基, 福井敬一, 安藤忍, 弘瀬冬樹, 木村一洋, 吉田康宏, 岩切一宏, 吉田知央, 山本哲也, 吉川澄夫, 2013: 2011年霧島山新燃岳噴火における降灰観測と予測. *験震時報*, **77**, 215-222.
- 五十嵐康人 1 五十嵐康人, 2013: 新学術領域研究(研究領域提案型)「福島原発事故により放出された放射性核種の環境動態に関する学際的研究」とその立ち上がり. *放射化学*, **27**, 28-34.
- 2* Yamamoto, Y., S. Toyoda, K. Nagashima, Y. Igarashi and R. Tada, 2013: Investigation of the Temporal Change of the Sources of Aeolian Dust Delivered to East Asia Using Electron Spin Resonance Signals in Quartz. *Geochronometria*, **40(4)** 2013, 355-359, doi:10.2478/s13386-013-0121-x.
- 3* 五十嵐康人, 財前祐二, 足立光司, 梶野瑞王, 三上正男, 2013: 福島事故後のつくばにおける降下量, 大気中放射能濃度の推移. *Proceedings of the 14th Workshop on Environmental Radioactivity, KEK Proceedings, 2013-7 November 2013*, 35-39.
- 4 五十嵐康人, 2013: 日本地球惑星科学連合 2013年大会セッション「最新の大気化学: 福島原発事故放射能の大気・陸圏輸送、沈着問題」の報告. *天気*, **60(11)**, 975-976.
- 5* 梶野瑞王, 五十嵐康人, 藤谷雄二, 2014: Fresh soot と、aged soot は、どちらが気道に沈着しやすいか—粒径分布と吸湿性の気管支・肺胞沈着率への影響—. *大気環境学会誌*, **49(2)**, 101-108.
- 6* Yamashiki, Y., Y. Onda, H. G. Smith, W. H. Blake, T. Wakahara, Y. Igarashi, Y. Matsuura and K. Yoshimura, 2014: Initial flux of sediment-associated radiocesium to the ocean from the largest river impacted by Fukushima Daiichi Nuclear Power Plant. *Scientific Reports*.
- 7* Adachi, K., M. Kajino, Y. Zaizen and Y. Igarashi, 2013: Emission of spherical cesium-bearing particles from an early stage of the Fukushima nuclear accident. *Scientific Reports*, **3**, 2554 (1-5).
- 8 五十嵐康人, 日本学術会議 第三部 総合工学委員会 原子力事故対応分科会, 原発事故による環境汚染調査に関する検討小委員会メンバー 中島映至, 他, 2013: Environmental consequences of the Chernobyl accident and their remediation: twenty years of experience / report of the Chernobyl Forum Expert Group 'Environment' . 263. (翻訳及び翻訳監修)
- 石井雅男 1 石井雅男, 2013: 7.20 炭素循環. 図説 地球環境の事典 (吉崎正憲ほか編), 2.
- 2 石井雅男, 2013: C.2 二酸化炭素の溶液化学. 図説 地球環境の事典 (吉崎正憲ほか編), 7.
- 3* 神田穰太, 石井雅男, 小川浩史, 小笠恒夫, 小畑元, 川合美千代, 鈴木昌弘, 本多牧生, 山下洋平, 渡邊豊, 2013: 海洋学の10年展望(II) —日本海洋学会将来構想委員会化学サブグループの議論から—. *海の研究*, **22**, 219-251.
- 4* Ishii, M., R. A. Feely, K. B. Rodgers, G. -H. Park, R. Wanninkhof, D. Sasano, H. Sugimoto, C. E. Cosca, S. Nakaoka, M. Telszewski, Y. Nojiri, S. E. Mikaloff Fletcher, Y. Niwa, P. K. Patra, V. Valsala, H. Nakano, I. Lima, S. C. Doney, E. T. Buitenhuis, O. Aumont, J. P. Dunne, A. Lenton and T. Takahashi, 2014: Air-sea flux in the Pacific Ocean for the period 1990-2009. *Biogeosciences*, **11**, 709-734, doi:10.5194/bg-11-709-2014.
- 5 Ishii, M., D. Sasano, N. Kosugi, H. Nakano, K. Enyo, S. Saito, T. Nakano, T. Midorikawa and H. Y. Inoue, 2013: Trends in ocean acidification in the western North Pacific subtropical and tropical zones. *IMBER Newsletters*, **25**, 2.7.
- 6 Lorenzoni, L., Benway, H. M. (Editors), N. Bates, C. Carlson, C. Chandler, M.

- Church, M. Conte, K. Isensee M. Ishii, K. Johnson, O. Kawka, A. Kortzinger, R. Lampitt, R. Letelier, M. Lomas, V. Lutz, F. Muller-Karger, M. Telszewski and L. Valdes, 2013: Report of Global intercomparability in a changing ocean: An international time-series methods workshop, November 28-30, 2012. *TS Workshop report*, 90.
- 7* Lenton, A., B. Tilbrook, R. M. Law, D. Bakker, S. C. Doney, N. Gruber, M. Ishii, M. Hoppema, N. S. Lovenduski, R. J. Matear, B. I. McNeil, N. Metzl, S. E. Mikaloff Fletcher, P. M. S. Monteiro, C. Rodenbeck, C. Sweeney and T. Takahashi, 2013: Sea-air CO₂ fluxes in the Southern Ocean for the period 1990-2009. *Biogeosciences*, **10**, 4037-4054.
- 8* Kameyama, S., H. Tanimoto, S. Inomata, H. Y. Inoue, U. Tsunogai, A. Tsuda, M. Uematsu, M. Ishii, D. Sasano, K. Suzuki and Y. Nosaka, 2013: Strong relationship between dimethyl sulfide and net community production in the western subarctic Pacific. *Geophys. Res. Lett.*, **40**, 3986-3990.
- 石井正好 1* Hirahara, S., M. Ishii and Y. Fukuda, 2013: Centennial-scale sea surface temperature analysis and its uncertainty. *Journal of Climate*.
- 2* Mori, M., M. Kimoto, M. Ishii, S. Yokoi, T. Mochizuki, Y. Chikamoto, M. Watanabe, T. Nozawa, H. Tatebe, T. T. Sakamoto, Y. Komuro, Y. Imada and H. Koyama, 2013: Prediction and Projection of Tropical Cyclone Activity over the Western North Pacific using CMIP5 Near-Term Experiments by MIROC. *J. Meteor. Soc. Japan*, **91**, 431-452, doi: 10.2151/jmsj.2013-402.
- 3* Imada, Y., H. Shiogama, M. Watanabe, M. Mori, M. Ishii and M. Kimoto, 2013: Contribution of atmospheric circulation change to the 2012 heavy rainfall in southwestern Japan. *Bull. Amer. Meteor. Soc.*, **94**, S52-S54.
- 4* Han, W., G. A. Meehl, A. Hu, M. A. Alexander, T. Yamagata, D. Yuan, M. Ishii, P. Pegion, J. Zheng, B. D. Hamlington, X.-W. Quan and R. R. Leben, 2013: Intensification of decadal and multi-decadal sea level variability in the western tropical Pacific during recent decades. *Climate Dynamics*, doi: 10.1007/s00382-013-1951-1.
- 5* Abraham, J. P., M. Baringer, N. L. Bindoff, T. Boyer, L. J. Cheng, J. A. Church, J. L. Conroy, C. M. Domingues, J. T. Fasullo, J. Gilson, G. Goni, S. A. Good, J. M. Gorman, V. Gouretski, M. Ishii, G. C. Johnson, S. Kizu, J. M. Lyman, A. M. Macdonald, W. J. Minkowycz, S. E. Moffitt, M. D. Palmer, A. R. Piola, F. Reseghetti, K. Schuckmann, E. Trenberth, I. Velicogna, J. K. Willis, 2013: A review of global ocean temperature observations : Implications for ocean heat content estimates and climate change. *Review of Geophysics*, doi:10.1002/rog.20022.
- 6* Watanabe, M., H. Shiogama, Y. Imada, M. Mori, M. Ishii, and M. Kimoto, 2013: Event attribution of the August 2010 Russian heat wave. *SOLA*, **9**, 4.
- 7* Nakada, M., J. Okuno and M. Ishii, 2013: Twentieth century sea-level rise inferred from tide gauge, geologically derived and thermosteric sea-level changes. *Quaternary Science Reviews*, **75**, 114-131.
- 8 石井正好, 2013: 連載「気候科学が教えてくれること」第一回「地球温暖化と気候予測」. 隔月刊「地球温暖化」, 5月号, 2.
- 9 Watanabe, M., Y. Kamae, A. Oka, M. Sato, M. Ishii, T. Mochizuki and M. Kimoto, 2013: Strengthening of ocean heat uptake efficiency associated with the recent climate hiatus. *Geophys. Res. Lett.*, **40**, 5.
- 石橋俊之 1 石橋俊之, 2013: 観測システムシミュレーション実験 (OSSE) . 天気, **60(10)**, 831-833.
- 石元裕史 1* Ishimoto, H., K. Masuda, Y. Mano, N. Orikasa, A. Uchiyama, 2012: Irregularly shaped ice aggregates in optical modeling of convectively generated ice clouds. *J. Quant. Spectrosc. Radiat. Transfer*, **113**, 632-643.
- 2 Ishimoto, H., Y. Zaizen, K. Masuda, Y. Mano, A. Uchiyama, 2012: Shape modeling of dust and soot particles for remote sensing applications by considering the geometrical features of sampled aerosols. *Technical Reports of the Meteorological Research Institute*, **68**, 40-43.
- 3 Masuda K., Ishimoto, H., Y. Mano, 2012: Efficient method of computing a geometric

- optics integral for light scattering by nonspherical particles. *Papers in Meteorology and Geophysics*, **63**, 15-19.
- 4 Ishimoto, H., K. Masuda, Y. Mano, N. Orikasa, A. Uchiyama, 2013: Optical modeling of irregular shaped ice particles in convective cirrus. *Radiation Process in the Atmosphere and Ocean (IRS2012) AIP Conf. Proc.*, **1531**, 184-187; doi:10.1063/1.4804737
- 上清直隆 1 Uekiyo, N., 2013: The effect of variation of principal components on retrieval of atmospheric profiles from hyperspectral infrared sounder data. *Pap. Meteor. Geophys.*, **64**, pp.21-35
- 上野 寛 1 Katsumata, A., H. Ueno, S. Aoki, Y. Yoshida and S. Barrientos, 2013: Rapid magnitude determination from peak amplitudes at local stations. *Earth, Planets and Space*, **65**, 843-853.
- 碓氷典久 1* Usui, N., H. Tsujino, H. Nakano, and S. Matsumoto, 2013: Long-term variability of the Kuroshio path south of Japan. *J. Oceanogr.*, **69(6)**, 647-670.
- 2* Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation. *Journal of Oceanography*, **70**, 45-62.
- 3* Fujii, Y., T. Nakano, N. Usui, S. Matsumoto, H. Tsujino and M. Kamachi, 2013: Pathways of the North Pacific Intermediate Water identified through the tangent linear and adjoint models of an ocean general circulation model. *Journal of Geophysical Research*, **118**, 2035-2051.
- 4* Nishikawa, H., H. Igarashi, Y. Ishikawa, M. Sakai, Y. Kato, M. Ebina, N. Usui, M. Kamachi, T. Awaji, 2014: Impact of paralarvae and juveniles feeding environment on the neon flying squid (*Ommastrephes batramii*) winter-spring cohort stock. *Fisheries Oceanography*, **23**, 289-303.
- 遠藤洋和 1* Kitoh, A., H. Endo, K. K. Kumar, I. F. A. Cavalcanti, P. Goswami, and T. Zhou, 2013: Monsoons in a changing world: a regional perspective in a global context. *J. Geophys. Res.*, **118**, 3053-3065, doi: 10.1002/jgrd.50258.
- 2 遠藤洋和, 連載「気候科学が教えてくれること」第三回「地球温暖化と異常気象」. 隔月刊「地球温暖化」, 9月号, 46-47.
- 大島 長 1* Oshima, N., 2014: ブラックカーボン粒子のモデル研究: ミクロスケールから全球スケールまで, Modeling Studies of Black Carbon Particles: From the Micro Scale to the Global Scale. *Eurozoru Kenkyu*, **29 (1)**, 22-31. (in Japanese with English abstract)
- 2* Oshima, N., M. Koike, Y. Kondo, H. Nakamura, N. Moteki, H. Matsui, N. Takegawa, and K. Kita, 2013: Vertical transport mechanisms of black carbon over East Asia in spring during the A-FORCE aircraft campaign. *J. Geophys. Res. Atmos.*, **118**, 13,175-13,198, doi:10.1002/2013JD020262.
- 3* Matsui, H., M. Koike, Y. Kondo, N. Oshima, N. Moteki, Y. Kanaya, A. Takami, and M. Irwin, 2013: Seasonal variations of Asian black carbon outflow to the Pacific: Contribution from anthropogenic sources in China and biomass burning sources in Siberia and Southeast Asia. *J. Geophys. Res. Atmos.*, **118**, 9948-9967, doi:10.1002/jgrd.50702.
- 4* Takegawa, N., N. Moteki, M. Koike, N. Oshima, and Y. Kondo, 2013: Condensation particle counters combined with a low-pressure impactor for fast measurement of mode-segregated aerosol number concentration. *Aerosol. Sci. Technol.*, **47:10**, 1059-1065, DOI: 10.1080/02786826.2013.822462.
- 5* Liu, X., Y. Kondo, K. Ram, H. Matsui, K. Nakagomi, T. Ikeda, N. Oshima, R. L. Verma, N. Takegawa, M. Koike and M. Kajino, 2013: Seasonal variations of black carbon observed at the remote mountain site Happo in Japan. *J. Geophys. Res. Atmos.*, **118**, 3709-3722, doi:10.1002/jgrd.50317.
- 大塚道子 1* Kumamoto, M., M. Otsuka, T. Sakai, T. Hamagami, H. Kawamura, T. Aoshima and F. Fujibe, 2013: Field experiment on the effects of a nearby asphalt road on temperature measurement. *SOLA*, **9**, 56-59, doi:10.2151/sola.2013-013.
- 岡本幸三 1* 笹野泰弘, 祖父江真一, 江淵直人, 岡本幸三, 佐藤正樹, 沢田治雄, 中村健治, 早坂忠裕, 本多嘉明, 2013: わが国の今後の衛星観測計画について. *天気*, **60**, 433-444.

- 2 Origuchi, S., K. Aonashi and K. Okamoto, 2013: Displaced Ensemble Variational Assimilation Experiment using Brightness Temperatures of Microwave Imager. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling*, **43**, 1.09-1.10.
- 3* Okamoto, K., T. McNally and W. Bell, 2013: Progress towards the assimilation of all-sky infrared radiances: an evaluation of cloud effects. doi: 10.1002/qj.2242.
- 小川浩司 1* Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation, *Journal of Oceanography*, **70**, 45-62.
- 尾瀬智昭 1* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 小野木茂 1 気象測器検定試験センター, 気象研究所物理気象研究部, 2013: 雨量計周囲の気流に架台が及ぼす影響についての調査報告. *測候時報*, **80**,1-5.
- 2* Adachi, A., T. Kobayashi, H. Yamauchi and S. Onogi, 2013: Detection of potentially hazardous convective clouds with a dual-polarized C-band radar. *Atmos. Meas. Tech.*, **6**, 2741-2760, doi: 10.5194/amt-6-2741-2013.
- 3 Adachi, A., T. Kobayashi, H. Yamauchi and S. Onogi, 2013: Radar calibration using polarimetric observations with rain attenuation correction. *Extended abstract of the 36th Conference on Radar Meteorology*, 270.
- 4* Kondo, H., S. Murayama, Y. Sawa, K. Ishijima, H. Matsueda, A. Wada, H. Sugawara and S. Onogi, 2014: Vertical Diffusion Coefficient under Stable Conditions Estimated from Variations in the Near-Surface Radon Concentration. *Journal of the Meteorological Society of Japan*, **92**, 95-106.
- 鬼澤真也 1 鬼澤真也, 2014: 伊豆大島の地殻変動. *火山噴火予知連絡会会報*, **112**, 26-32.
- 2* 鬼澤真也, 新堀敏基, 福井敬一, 2013: 遠望カメラ画像による噴煙高度の把握とマグマ噴出率の推定-2011年3月13日霧島山新燃岳噴火の事例-. *験震時報*, **77**, 119-138.
- 3* 鬼澤真也, 新堀敏基, 福井敬一, 安藤忍, 弘瀬冬樹, 木村一洋, 吉田康宏, 岩切一宏, 吉田知央, 山本哲也, 吉川澄夫, 2013: 2011年霧島山新燃岳噴火における降灰観測と予測. *験震時報*, **77**, 215-222.
- 4* Ohwada, M., K. Kazahaya, T. Mori, R. Kazahaya, J. Hirabayashi, M. Miyashita, S. Onizawa and T. Mori, 2013: Sulfur dioxide emissions related to volcanic activity at Asama volcano, Japan. *Bull. Volcanol.*, **75**:775, doi: 10.1007/s00445-013-0775-5.
- 小畑 淳 1* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 小山 亮 1* Oyama, R., 2014: Estimation of tropical cyclone central pressure from warm core intensity observed by the Advanced Microwave Sounding Unit-A (AMSU-A). *Pap. Meteor. Geophys.*, **65**, 35-56, doi:10.2467/mripapers.65.35.
- 2 Oyama, R., 2014: Algorithm and validation of a tropical cyclone central pressure estimation method based on warm core intensity as observed using the Advanced Microwave Sounding Unit-A (AMSU-A). *RSMC Tokyo - Typhoon Center Technical Review*, **16**.
- 折口征二 1 折口征二, 斉藤和雄, 瀬古弘, 益子渉, 黒田徹, 2014: 雲解像アンサンブルによる2012年台風第15号の3重眼再現実験. *台風研究会(台風災害の発生メカニズム解明と減災に関する研究集会) 冊子*, 58-62.
- 2 Origuchi, S., K. Aonashi and K. Okamoto, 2013: Displaced Ensemble Variational Assimilation Experiment using Brightness Temperatures of Microwave Imager. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling*, **43**, 1.09-1.10.
- 3 Origuchi, S., K. Saito, H. Seko, T. Kuroda and W. Mashiko, 2013: Triple Eyewall

- Experiment of the 2012 typhoon “BOLAVEN” using Cloud Resolving Ensemble Forecast. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling*, **43**, 5.09-5.10.
- 梶野瑞王 1* Inomata, Y., M. Kajino, K. Sato, T. Ohara, J. Kurokawa, H. Ueda, N. Tang, K. Hayakawa, T. Ohizumi and H. Akimoto, 2013: Source contribution of surface particulate polycyclic aromatic hydrocarbon concentrations in Northeast Asia by source-receptor relationships. *Environmental Pollution*, **182**, 324-334, doi:10.1016/j.envpol.2013.07.020.
- 2* Kajino, M., R. C. Easter and S. J. Ghan, 2013: Modal Bin Hybrid Model: a surface area consistent, triple moment sectional method for use in process-oriented modeling of atmospheric aerosols. *J. Geophys. Res.*, **118**, 10,011-10,040, doi:10.1002/jgrd.50685.
- 3* 五十嵐康人, 財前祐二, 足立光司, 梶野瑞王, 三上正男, 2013: 福島事故後のつくばにおける降下量, 大気中放射能濃度の推移. *Proceedings of the 14th Workshop on Environmental Radioactivity, KEK Proceedings, 2013-7 November 2013*, 35-39.
- 4 中島映至, 鶴田治雄, 滝川雅之, 森野悠, 関山剛, 梶野瑞王, 渡邊明, 篠原厚, 北和之, 2013: (特集) 地球科学分野における活動と緊急災害時における研究者の対応. *Radioisotopes*, **62**, 761-766.
- 5* Chatani, S., Y. Morino, H. Shimadera, H. Hayami, Y. Mori, K. Sasaki, M. Kajino, T. Yokoi, T. Morikawa and T. Ohara, 2014: Multi-model analysis of dominant factors influencing elemental carbon in Tokyo Metropolitan Area of Japan. *Aerosol and Air Quality Research*, **14**, 396-405.
- 6* 梶野瑞王, 五十嵐康人, 藤谷雄二, 2014: Fresh soot と、aged soot は、どちらが気道に沈着しやすいか—粒径分布と吸湿性の気管支・肺泡沈着率への影響—. *大気環境学会誌*, **49(2)**, 101-108.
- 7* Liu, X., Y. Kondo, K. Ram, H. Matsui, K. Nakagomi, T. Ikeda, N. Oshima, R. L. Verma, N. Takegawa, M. Koike and M. Kajino, 2013: Seasonal variations of black carbon observed at the remote mountain site Happo in Japan. *J. Geophys. Res.*, 3709-3722.
- 8* Kajino, M., K. Sato, Y. Inomata and H. Ueda, 2013: Source-receptor relationship of nitrate in East Asia and sea salt effects. *Atmos. Environ.*, 67-78.
- 9* Sahu, L. K., V. Sheel, M. Kajino, S. S. Gunthe, V. Thouret, P. Nedelec and H. G. Smit, 2013: Characteristics of tropospheric ozone variability over an urban site in Southeast Asia: a study based on MOZAIC and MOZART vertical profiles. *J. Geophys. Res. Atmosphere*, **118(15)**, 8729-8747, doi:10.1002/jgrd50662.
- 10* Sahu, L. K., V. Sheel, M. Kajino, P. Nedelec, 2013: Variability in tropospheric carbon monoxide over an urban site in Southeast Asia. *Atmos. Environ.* **68**, 243-255.
- 11* Adachi, K., M. Kajino, Y. Zaizen and Y. Igarashi, 2013: Emission of spherical cesium-bearing particles from an early stage of the Fukushima nuclear accident. *Scientific Reports*, **3**, 2554 (1-5).
- 12* 猪股弥生, 梶野瑞王, 佐藤啓市, 黒川純一, 大泉毅, 2013: 東アジアにおける PAHs の排出インベントリと大気モデル解析. *エアロゾル研究*, **28(1)**, 5-11.
- 13* Katata, G., M. Kajino, M. Matsuda, A. Takahashi, K. Nakaya, Effects of aerosol hygroscopic properties on dry deposition onto a broad-leaved forest: a numerical study, *Atmos. Environ.*, in press.
- 14 梶野瑞王, 滝川雅之, 田中泰宙, 津旨大輔, 川原慎太郎, 杉山徹, 森野悠, 鶴田治雄, 井上豊志郎, 打田純也, 関山剛, 眞木貴史, 中島映至, 福島第一原発事故による放射性物質の環境汚染シミュレーションに関する講習会報告、天気、in press.
- 勝間田明男 1* Katsumata, A., H. Ueno, S. Aoki, Y. Yoshida and S. Barrientos, 2013: Rapid magnitude determination from peak amplitudes at local stations. *Earth, Planets and Space*, **65**, 843-853.
- 加藤輝之 1* Ito, K., T. Kawabata, T. Kato, Y. Honda, Y. Ishikawa and T. Awaji, 2013: Simultaneous Optimization of Air-Sea Exchange Coefficients and Initial

- Conditions near a Tropical Cyclone Using JNoVA. *J. Meteor. Soc. Japan*, **91**, 337-353, doi:10.2151/jmsj.2013-307.
- 2* Yoshizaki, M., T. Kato and K. Yasunaga, 2013: Linear responses of the buoyancy induced by band-shaped precipitation with an end and numerical verifications Part 1. A theoretical study. *J. Meteor. Soc. Japan*, **91**, 527-538.
- 3 Kato, T., 2013: Effect of warm ocean current on the formation of low-level humid air causing a F3 tornado storm observed in middle Japan on 6 May 2012. *CAS/JSC Research Activities in Atmospheric and Oceanic Modeling*, **41**, 5.07-5.08.
- 4 加藤輝之, 上田博, 竹見哲也, 佐野哲也, 額額丈晴, 山田広幸, 2013: 第9回「東アジア域でのメソ対流系と顕著気象に関する国際会議(ICMCS-IX)」参加報告. *天気*, **60**, 539-546.
- 5 加藤輝之, 楠研一, 林泰一, 吉田健二, 木下仁, 佐々木洋, 國井勝, 茂木耕作, 佐々木恭子, 2013: 第39回メソ気象研究会・気象災害委員会との共催発表会の報告. *天気*, **60**, 667-672.
- 6 加藤輝之, 2013: 風水害に対する備えと対策～豪雨や竜巻等の顕著気象の発生要因をふまえて～. *人と国土* **21**, **39(3)**, 31-36.
- 7 黒良龍太, 森浩俊, 加藤輝之, 2014: 予報作業における渦位の利用について. *平成25年度予報技術研修テキスト*, 49-61.
- 蒲地政文 1* Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation. *Journal of Oceanography*, **70**, 45-62.
- 2* Fujii, Y., T. Nakano, N. Usui, S. Matsumoto, H. Tsujino and M. Kamachi, 2013: Pathways of the North Pacific Intermediate Water identified through the tangent linear and adjoint models of an ocean general circulation model. *Journal of Geophysical Research*, **118**, 2035-2051.
- 3 Balmaseda, M. A., F. Hernandez, A. Storto, M. Palmer, L. Shi, G. Smith, T. Toyoda, M. Valdivieso, O. Alves, B. Barnier, T. Boyer, Y. Chang, G. A. Chepurin, N. Ferry, G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Köhl, T. Lee, M. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd, O. Wang, Y. Xue, M. Chevallier, J-F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, K. Wilmer-Becker, F. Gaillard, 2014: The Ocean Reanalyses Intercomparison Project (ORA-IP). *CLIVAR Exchanges*, **19**, 3-7.
- 4 Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. Martin, K. A. Peterson, S. Good, M. Valdivieso, K. Haines, A. Storto, A. Köhl, Y. Yin, L. Shi, G. Smith, Y. Chang, G. Vernieres, X. Wang, O. Wang, T. Lee, M. Balmaseda, 2014: Mixed layer depth intercomparison among global ocean syntheses/ reanalyses. *CLIVAR Exchanges*, **19**, 22-24.
- 5* Nishikawa, H., H. Igarashi, Y. Ishikawa, M. Sakai, Y. Kato, M. Ebina, N. Usui, M. Kamachi, T. Awaji, 2014: Impact of paralarvae and juveniles feeding environment on the neon flying squid (*Ommastrephes batramii*) winter-spring cohort stock. *Fisheries Oceanography*, **23**, 289-303.
- 6* Sugiura, N., Masuda, S., Fujii, Y., Kamachi, M., Ishikawa, Y., and Awaji, T., 2014: A framework for interpreting regularized state estimation. *Mon. Wea. Rev.*, **142**, 386-400. DOI:10.1175/MWR-D-12-00231.1.
- 川合秀明 1 Kawai, H., H. Yonehara and M. Ujiie, 2013: Vertical Layer Placement in the Eta Coordinate for Models with a High Model Top. *CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling*, **43**, 0303-0304.
- 2 Kawai, H., 2013: Improvement of a Stratocumulus Scheme for Mid-latitude Marine Low Clouds. *CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling*, **43**, 0403-0404.
- 3* Zhang, M., C. S. Bretherton, P. N. Blossey, P. H. Austin, J. T. Bacmeister, S. Bony, F.

- Brient, S. K. Cheedela, A. Cheng, A. D. D. Genio, S. R. De Roode, S. Endo, C. N. Franklin, J.-C. Golaz, C. Hannay, T. Heus, F. A. Isotta, J.-L. Dufresne, I.-S. Kang, H. Kawai, 他 20 名, 2013: CGILS. *Journal of Advances in Modeling Earth Systems*, **5**.
- 4* Su, Hui, J. H. Jiang, C. Zhai, V. S. Perun, J. T. Shen, A. D. Genio, L. S. Nazarenko, L. J. Donner, L. Horowitz, C. Seman, C. Morcrette, J. Petch, M. Ringer, J. Cole, K. v. Salzen, M. d S. Mesquita, T. Iversen, J. E. Kristjansson, A. Gettelman, L. Rotstayn, S. Jeffrey, J.-L. Dufresne, M. Watanabe, H. Kawai, T. Koshiro, 他 5 名, 2013: Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using [A-Train] satellite observations and reanalysis data. *JOURNAL OF GEOPHYSICAL RESEARCH*, **118**, 2762-2780.
- 5* 小玉知央, 釜江陽一, 小倉知夫, 神代剛, 川合秀明, 野田暁, 渡部雅浩, 2013: 雲フィードバックに関するモデル相互比較プロジェクト (CFMIP) 会議 2013 参加報告. *天気*, **60**, 1029-1035.
- 川畑拓矢 1* Kawabata, T., Y. Shoji, H. Seko and K. Saito, 2013: A numerical study on a mesoscale convective system over a subtropical island with 4D-Var assimilation of GPS slant total delays. *J. Meteor. Soc. Japan*, **91**, 705-721.
- 2 川畑拓矢, 上野玄太, 中野慎也, 小守信正, 増田周平, 茂木耕作, 若松剛, 藤井陽介, 2013: 第3回データ同化ワークショップの報告. *天気*, **60**, 633-635.
- 北畠尚子 1 Sakuragi, T., S. Hoshino and N. Kitabatake, 2013: Development and Verification of a Tropical Cyclone Intensity Estimation Method Reflecting the Variety of TRMM/TMI Brightness Temperature Distribution. *RSMC Tokyo - Typhoon Center Tech. Rev.*, **No. 16**.
- 北村祐二 1* Kitamura, Y., A. Hori and T. Yagi, 2013: Flux Richardson number and turbulent Prandtl number in a developing stable boundary layer, *J. Meteor. Soc. Japan*, **91**, 655-666, doi:10.2151/jmsj.2013-507
- 木村一洋 1* 鬼澤真也, 新堀敏基, 福井敬一, 安藤忍, 弘瀬冬樹, 木村一洋, 吉田康宏, 岩切一宏, 吉田知央, 山本哲也, 吉川澄夫, 2013: 2011 年霧島山新燃岳噴火における降灰観測と予測. *験震時報*, **77**, 215-222.
- 楠 研一 1 片倉翔, 鳥居建夫, 杉田武志, 楠研一, 保田浩志, 御園生諒, 鴨川仁, 2013: 夏期の雷雲に関連する高エネルギー放射線の発生位置同定. *日本大気電気学会誌*, **82**, 42-43.
- 2 宮崎忠臣, 道本光一郎, 鈴木智幸, 楠研一, 早川正士, 木村順一, 早川信一, 2013: 雷放電時の電界変化について. *日本大気電気学会誌*, **82**, 116-117.
- 3 楠研一, 2014: 平成 25 年度気象講演会報告. *日本気象学会東北支部だより*, **78**, 3.
- 4* 河内駿迪, 吉田智, Ting Wu, 牛尾知雄, 楠研一, 2014: 雷放電に伴う Preliminary breakdown の発生高度と積乱雲内電荷構造. *Journal of Atmospheric Electricity*, **34(1)**, 55-68.
- 5 加藤輝之, 楠研一, 2013: 第 39 回メソ気象研究会・気象災害委員会との共催発表会の報告. *天気*, **60**, 45-50.
- 6 Saito, S., K. Kusunoki, and H. Y. Inoue, 2013: A case study of the merging of two misocyclones in the TOMACS field campaign area of Tokyo on 26 August 2011. *SOLA*, **9**, 153-156.
- 楠 昌司 1* Kusunoki, S. and R. Mizuta, 2013: Changes in precipitation intensity over East Asia during the 20th and 21st centuries simulated by a global atmospheric model with a 60km grid size. *Journal of Geophysical Research: Atmospheres*, **118**, 11,007-11,016, doi: 10.1002/jgrd.50877.
- 2* Nakaegawa, T., A. Kitoh, H. Murakami and S. Kusunoki, 2013: Maximum 5-day Rainfall Total and the Maximum Number of Consecutive Dry Days over Central America in the future climate projected by an atmospheric general circulation model with three different horizontal resolutions. *Theoretical and Applied Climatology*, doi:10.1007/s00704-013-0934-9.
- 3* Nakaegawa, T., A. Kitoh, Y. Ishizaki, S. Kusunoki and H. Murakami, 2013: Caribbean low-level jets and accompanying moisture fluxes in a global warming climate projected with CMIP3 multi-model ensemble and fine-mesh atmospheric general circulation

- models. *International Journal of Climatology*, doi:10.1002/joc.3733.
- 4* Rahman, M. M., M. Rafiuddin, M. M. Alam, S. Kusunoki, A. Kitoh and F. Giorgi, 2013: Summer monsoon rainfall scenario over Bangladesh using a high-resolution AGCM. *Natural Hazards*, doi: 10.1007/s11069-013-0734-7.
- 5* 楠昌司 (多数の執筆者の中の一人), 2013: 予測される気候変化 (4) 異常気象 極端現象. *地球環境の事典*, 392.
- 朽木勝幸 1* Aoki, T., K. Kuchiki, M. Niwano, S. Matoba, J. Uetake, K. Masuda and H. Ishimoto, 2013: Numerical Simulation of Spectral Albedos of Glacier Surfaces Covered with Glacial Microbes in Northwestern Greenland. *RADIATION PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)*, Robert Cahalan and Jurgen Fischer (Eds), *AIP Conf. Proc.*, **1531**, 176-179, doi:10.1063/1.4804735.
- 2 Hori, M., T. Tanikawa, Te. Aoki, A. Hachikubo, K. Sugiura, K. Kuchiki and M. Niwano, 2013: Possibility to discriminate snow types using brightness temperatures in the thermal infrared wavelength region, *RADIATION PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)*, Robert Cahalan and Jurgen Fischer (Eds), *AIP Conf. Proc.*, **1531**, 316-319, doi:10.1063/1.4804770.
- 3* Hori, M., Te. Aoki, T. Tanikawa, A. Hachikubo, K. Sugiura, K. Kuchiki and M. Niwano, 2013: Modeling angular dependent spectral emissivity of snow and ice in the thermal infrared atmospheric window. *Applied Optics*, **52**, 7243-7255.
- 国井 勝 1 Seko, H., K. Saito, T. Tsuyuki, M. Kunii and T. Miyoshi, 2013: Data Assimilation Experiments of Tornado occurring on 6th May 2012. *CAS/JSC WGN Res. Activ. Atmos. Ocea. Modell.*, **43**, 1.13-1.14.
- 倉賀野連 1* Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation. *Journal of Oceanography*, **70**, 45-62.
- 2 Balmaseda, M. A., F. Hernandez, A. Storto, M. Palmer, L. Shi, G. Smith, T. Toyoda, M. Valdivieso, O. Alves, B. Barnier, T. Boyer, Y. Chang, G. A. Chepurin, N. Ferry, G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Köhl, T. Lee, M. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd, O. Wang, Y. Xue, M. Chevallier, J-F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, K. Wilmer-Becker, F. Gaillard, 2014: The Ocean Reanalyses Intercomparison Project (ORA-IP). *CLIVAR Exchanges*, **19**, 3-7.
- 3 Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. Martin, K. A. Peterson, S. Good, M. Valdivieso, K. Haines, A. Storto, A. Köhl, Y. Yin, L. Shi, G. Smith, Y. Chang, G. Vernieres, X. Wang, O. Wang, T. Lee, M. Balmaseda, 2014: Mixed layer depth intercomparison among global ocean syntheses/ reanalyses. *CLIVAR Exchanges*, **19**, 22-24.
- 黒田友二 1* Matthes, K., K. Kodera, R.R. Garcia, Y. kuroda, D. R. Marsh, and K. Labitzke, 2013: The importance of time-varying forcing for QBO modulation of the atmospheric 11 year solar cycle signal. *J. Geophys. Res.*, **118**, 4435-4447, doi:10.1002/jgrd.50424.
- 2* Kuroda, Y., and H. Mukougawa, 2013: Role of atmospheric waves in the formation and maintenance of the Northern Annular Mode. *J. Geophys. Res.*, **118**, 9048-9063, doi:10.1002/jgrd.50709.
- 小杉如央 1 Ishii, M., D. Sasano, N. Kosugi, H. Nakano, K. Enyo, S. Saito, T. Nakano, T. Midorikawa and H. Y. Inoue, 2013: Trends in ocean acidification in the western North Pacific subtropical and tropical zones. *IMBER Newsletters*, **25**, 2.7.
- 小林昭夫 1* 小林昭夫, 2013: 水準測量と潮位による紀伊半島の地殻上下変動 (1972~2009年). *地震*, **66**, 15-25.
- 小林ちあき 1* Kobayashi, C., 2013: Impact of tropical and subtropical SSTs on mid-latitude tropospheric warming in the northern summer of 2010. *Climate Dynamics*,

- doi:10.1007/s00382-013-2013-4.
- 2* Nakamura, T., H. Akiyoshi, M. Deushi, K. Miyazaki, C. Kobayashi, K. Shibata and T. Iwasaki, 2013: A multimodel comparison of stratospheric ozone data assimilation based on an ensemble Kalman filter approach. *J. Geophys. Res.*, **118**, 3848-3868, doi:10.1002/jgrd.50338.
- 財前祐二 1* 五十嵐康人, 財前祐二, 足立光司, 梶野瑞王, 三上正男, 2013: 福島事故後のつくばにおける降下量, 大気中放射能濃度の推移. *Proceedings of the 14th Workshop on Environmental Radioactivity, KEK Proceedings, 2013-7 November 2013*, 35-39.
- 2* Sakai, T., T. Nagai, N. Oriyasa, Y. Zaizen, K. Yamashita, Y. Mano and M. Murakami, 2014: Aerosol characterization by dual-wavelength polarization lidar measurements over Kochi, Japan during the warm seasons of 2008 to 2010. *J. Meteor. Soc. Japan.*, **91**, 789-800.
- 3 Adachi, K., M. Kajino, Y. Zaizen and Y. Igarashi, 2013: Emission of spherical cesium-bearing particles from an early stage of the Fukushima nuclear accident. *Scientific Reports*, **3**, 2554 (1-5) .
- 齋藤篤思 1 Murakami, M., N. Oriyasa, A. Saito and K. Yamashita, 2013: CCN Ability of Atmospheric Aerosols and Microphysical Structures of Shallow Warm Clouds in Western Japan. *Nucleation and Atmospheric Aerosols, AIP/Conference Proceeding 1527*, 817-819.
- 2* Tajiri, T., K. Yamashita, M. Murakami*, N. Oriyasa, A. Saito, K. Kusunoki, and L. Lillie, 2013: A novel adiabatic-expansion-type cloud simulation chamber. *J. Meteor. Soc. Japan*, **91**, 687-704.
- 3 三隅良平, 下瀬健一, 岩崎杉紀, 大東忠保, 佐藤陽祐, 鶴沼昂, 大竹秀明, 古関俊也, 齋藤篤思, 橋本明弘, 山下克也, 田尻拓也, 竹見哲也, 藤吉康志, 村上正隆, 中井専人, 李根玉, 2013: 第16回国際雲・降水会議(ICCP2012)の報告. *天気*, **60**, 177-185.
- 齋藤和雄 1* Kawabata, T., Y. Shoji, H. Seko and K. Saito, 2013: A numerical study on a mesoscale convective system over a subtropical island with 4D-Var assimilation of GPS slant total delays. *J. Meteor. Soc. Japan*, **91**, 705-721.
- 2 近藤裕昭, 山田哲司, 茅野政道, 岩崎俊樹, 堅田元喜, 眞木貴史, 齋藤和雄, 寺田宏明, 鶴田治雄, 2013: 日米気象学会共催「福島第一原子力発電所からの汚染物質の輸送と拡散に関する特別シンポジウム・現状と将来への課題」報告. *天気*, **60**, 723-729.
- 3 Origuchi, S., K. Saito, H. Seko, T. Kuroda and W. Mashiko, 2013: Triple Eyewall Experiment of the 2012 typhoon “BOLAVEN” using Cloud Resolving Ensemble Forecast. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling*, **43**, 5.09-5.10.
- 4 Seko, H., T. Tsuyuki, K. Saito and T. Miyoshi, 2013: Development of a two-way nested LETKF system for cloud-resolving model. *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications*, **2**, 489-505.
- 5 Seko, H., K. Saito, T. Tsuyuki, M. Kunii and T. Miyoshi, 2013: Data Assimilation Experiments of Tornado occurring on 6th May 2012. *CAS/JSC WGNE Res. Activ. Atmos. Ocea. Modell.*, **43**, 1.13-1.14.
- 6* Duc, L., K. Saito and H. Seko, 2013: Spatial-temporal fractions verification for high resolution ensemble forecasts. *Tellus*, **65**, doi: 10.3402/tellusa.v65i0.18171.
- 7 齋藤和雄, 2013: メソスケール気象予測の数学的問題設定. *数学教育*, **95(5)**, 13-20.
- 8 小山真人, 中野隆志, 齋藤和雄, 内山高, 2013: 富士山. *ニュートン*, **2013年8月号**.
- 9* Saito, K., T. Tsuyuki, H. Seko, F. Kimura, T. Tokioka, T. Kuroda, L. Duc, K. Ito, T. Oizumi, G. Chen, J. Ito and the SPIRE Field 3 Mesoscale NWP group, 2013: Super high-resolution mesoscale weather prediction. *Journal of Physics: Conference Series*, **454**, 6, doi:10.1088/1742-6596/454/1/012073.:
- 10 Draxler, R., D. Arnold, S. Galmarini, M. Hort, A. Jones, S. Leadbetter, A. Malo, C. Maurer, G. Rolph, K. Saito, R. Servranckx, T. Shimbori, E. Solazzo, G. Wotawa, 2013: Evaluation of Meteorological Analyses for the Radionuclide Dispersion and Deposition from the Fukushima Daiichi Nuclear Power Plant Accident. *WMO Tech. Pub.*, **1120**, 64pp.

- 11 Chen, G., W. Sha, T. Iwasaki, H. Seko, and K. Saito, 2014: A building-resolving simulation of sea breeze over Sendai downtown with a parallelized CFD model. *SENAC*, **47**, 7-12.
- 12 近藤裕昭・山田哲司・茅野政道・岩崎俊樹・堅田元喜・眞木貴史・斉藤和雄・寺田宏明・鶴田治雄, 2013: 日米気象学会共催「福島第一原子力発電所からの汚染物質の輸送と拡散に関する特別シンポジウム-現状と将来への課題-」報告. *天気*, **60**, 723-729.
- 13 折口征二・斉藤和雄・瀬古弘・益子渉・黒田徹, 2014: 雲解像アンサンブルによる2012年台風第15号の3重眼再現実験. *台風災害の発生メカニズム解明と減災に関する研究集会*, 58-62.
- 14 伊藤耕介・黒田徹・川畑拓矢・斉藤和雄・本田有機, 2014: 高解像度大気海洋結合モデルを用いた台風強度予測. *台風災害の発生メカニズム解明と減災に関する研究集会*, 67-70.
- 15 Duc, L., T. Koruda, K. Saito and T. Fujita, 2014: Data assimilation experiments of Myanmar cyclone Nargis based on NHM-LETKF. *台風災害の発生メカニズム解明と減災に関する研究集会*, 76-79.
- 酒井 哲 1* Sakai, T., F. Russo, D. N. Whiteman, D. D. Turner, I. Veselovskii, S. H. Melfi, T. Nagai and Y. Mano, 2013: Liquid water cloud measurements using the Raman lidar technique: current understanding and future research needs. *J. Atmos. Ocean. Tech.*, **30**, 1337-1353, doi: 10.1175/JTECH-D-12-00099.1.
- 2* Whiteman, D. N., D. D. Venable, M. Walker, M. Cadirola, T. Sakai and I. Veselovskii, 2013: Assessing the temperature dependence of narrow-band Raman water vapor lidar measurements: a practical approach. *App. Opt.*, **52**, 5376-5384, doi: 10.1364/AO.52.005376.
- 3* Sakai, T., T. Nagai, N. Orikasa, Y. Zaizen, K. Yamashita, Y. Mano and M. Murakami, 2014: Aerosol characterization by dual-wavelength polarization lidar measurements over Kochi, Japan during the warm seasons of 2008 to 2010. *J. Meteor. Soc. Japan.*, **91**, 789-800.
- 4* 酒井哲, 永井智広, 2014: 高層気象観測の発展と展望 第4章水蒸気ラマンライダー, *気象研究ノート*, **229**, p123-131.
- 5* 中里真久, 永井智広, 酒井哲, 内野修, 2014: 高層気象観測の発展と展望 第5章ゾンライダー, *気象研究ノート*, **229**, p133-160.
- 坂本 圭 1* Nakano, H., H. Tsujino and K. Sakamoto, 2013: Tracer transport in cold-core rings pinched off from the Kuroshio Extension in an eddy-resolving ocean general circulation model. *J. Geophys. Res.*, **118**, 5461-6488.
- 2 坂本圭, 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2013: 日本近海2kmモデルの開発 -次世代日本沿岸監視予測システムに向けて-. *測候時報第80巻特別号*, S99-S109.
- 3* Sakamoto, K., H. Tsujino, M. Hirabara, H. Nakano and G. Yamanaka, 2013: A practical scheme to introduce explicit tidal forcing into an OGCM. *Ocean Sci.*, **9**, 1089-1108.
- 櫻木智明 1 Sakuragi, T., S. Hoshino and N. Kitabatake, 2013: Development and Verification of a Tropical Cyclone Intensity Estimation Method Reflecting the Variety of TRMM/TMI Brightness Temperature Distribution. *RSMC Tokyo - Typhoon Center Tech. Rev.*, **No. 16**.
- 笹野大輔 1* Ishii, M., D. Sasano, N. Kosugi, H. Nakano, K. Enyo, S. Saito, T. Nakano, T. Midorikawa and H. Y. Inoue, 2013: Trends in ocean acidification in the western North Pacific subtropical and tropical zones. *IMBER Newsletters*, **25**, 2.7.
- 2* Ishii, M., R. A. Feely, K. B. Rodgers, G. -H. Park, R. Wanninkhof, D. Sasano, H. Sugimoto, C. E. Cosca, S. Nakaoka, M. Telszewski, Y. Nojiri, S. E. Mikaloff Fletcher, Y. Niwa, P. K. Patra, V. Valsala, H. Nakano, I. Lima, S. C. Doney, E. T. Buitenhuis, O. Aumont, J. P. Dunne, A. Lenton and T. Takahashi, 2014: Air-sea flux in the Pacific Ocean for the period 1990-2009. *Biogeosciences*, **11**, 709-734, doi:10.5194/bg-11-709-2014.

- 3* Kameyama, S., H. Tanimoto, S. Inomata, H. Y. Inoue, U. Tsunogai, A. Tsuda, M. Uematsu, M. Ishii, D. Sasano, K. Suzuki and Y. Nosaka, 2013: Strong relationship between dimethyl sulfide and net community production in the western subarctic Pacific. *GEOPHYSICAL RESEARCH LETTERS*, **40**, 3986-3990.
- 佐藤英一 1 佐藤英一, 日本風工学会, 風災害研究会, 2013: 風災害研究会 2012 年次報告. *日本風工学会誌*, 235-242, doi:10.5359/jawe.38.235.
- 2 佐藤英一, 日本風工学会, 風災害研究会, 2014: 風災害研究会 2013 年次報告. *日本風工学会誌*.
- 3 佐藤英一, 日本風工学会, 風災害研究会, 2014: 【速報】2013 年 9 月に発生した一連の竜巻災害について Immediate Report on Tornado Disasters Occurred on September, 2013. *日本風工学会誌*, 68-83.
- 4 新堀敏基, 高木朗充, 山内洋, 佐藤英一, 福井敬一, 菅井明, 林勇太, 林洋介, 長谷川嘉彦, 真木雅之, 2014: 気象レーダーで観測された 2013 年 8 月 18 日桜島噴火に伴う噴煙エコー. *火山噴火予知連絡会会報*, **116**, 253-259.
- 澤 庸介 1* Inoue, M., I. Morino, O. Uchino, Y. Miyamoto, Y. Yoshida, T. Yokota, T. Machida, Y. Sawa, H. Matsueda, C. Sweeney, P. P. Tans, A. E. Andrews, S. C. Biraud, T. Tanaka, S. Kawakami and P. K. Patra, 2013: Validation of XCO₂ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. *Atmospheric Chemistry and Physics*, **13**, 9771-9778, doi:10.5194/acp-13-9771-2013.
- 2* Tsuboi, K., H. Matsueda, Y. Sawa, Y. Niwa, M. Nakamura, D. Kuboike, K. Saito, H. Ohmori, S. Iwatsubo, H. Nishi, Y. Hanamiya, K. Tsuji and Y. Baba, 2013: Evaluation of a new JMA aircraft flask sampling system and laboratory trace gas analysis system. *Atmospheric Measurement Techniques*, **6**, 1257-1270, doi:10.5194/amt-6-1257-2013.
- 3 町田敏暢, 松枝秀和, 澤庸介, 丹羽洋介, 江藤仁樹, 2013: 第 40 回環境賞 環境大臣賞・優秀賞 定期航空路線を利用した温室効果ガスのグローバル観測. *季刊 環境研究*, **172**, 4-13.
- 4* Kondo, H., S. Murayama, Y. Sawa, K. Ishijima, H. Matsueda, A. Wada, H. Sugawara, S. Onogi, 2014: Vertical Diffusion Coefficient under Stable Conditions Estimated from Variations in the Near-Surface Radon Concentration. *Journal of the Meteorological Society of Japan*, **92**, 95-106.
- 5* Ishidoya, S., K. Tsuboi, H. Matsueda, S. Murayama, S. Taguchi, Y. Sawa, Y. Niwa, K. Saito, K. Tsuji, Y. Baba, S. Takatsuji, K. Dehara and H. Fujiwara, 2014: New atmospheric O₂/N₂ ratio measurements over the western North Pacific using a cargo aircraft C-130H. *SOLA*, **10**, 23-28
- 6* Niwa, Y., K. Tsuboi, H. Matsueda, Y. Sawa, T. Machida, M. Nakamura, T. Kawasato, K. Saito, S. Takatsuji, K. Tsuji, H. Nishi, K. Dehara, Y. Baba, D. Kuboike, S. Iwatsubo, H. Ohmori and Y. Hanamiya, 2014: Seasonal Variations of CO₂, CH₄, N₂O and CO in the Mid-Troposphere over the Western North Pacific Observed Using a C-130H Cargo Aircraft. *気象集誌*, **92**, 55-70.
- 7 Machida, T., M. Sasakawa and Y. Sawa, 2013: Understanding Cycles of Greenhouse Gases. *GRENE Arctic Climate Change Research Project News Letter [Arctic]*, **2**, 2-3.
- 8* Basu, S., M. Krol, A. Butz, C. Clerbaux, Y. Sawa, T. Machida, H. Matsueda, C. Frankenberg, O. P. Hasekamp, and I. Aben, 2014: The seasonal variation of the CO₂ flux over Tropical Asia estimated from GOSAT, CONTRAIL, and IASI. *Geophysical Research Letters*, **41**, 1809-1815, doi:10.1002/2013GL059105.
- 小司禎教 1* Kawabata, T., Y. Shoji, H. Seko and K. Saito, 2013: A numerical study on a mesoscale convective system over a subtropical island with 4D-Var assimilation of GPS slant total delays. *J. Meteor. Soc. Japan*, **91**, 705-721.
- 2* Shoji, Y., H. Yamauchi, W. Mashiko, and E. Sato (2014): Estimation of Local-scale Precipitable Water Vapor Distribution Around Each GNSS Station Using

- Slant Path Delay. *SOLA*, **10**, 29-33.
- 新藤永樹 1* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 新堀敏基 1* 高木朗充, 新堀敏基, 山本哲也, 白土正明, 平祐太郎, 加藤幸司, 福井敬一, 2013: 物理観測による新燃岳の噴火規模の即時的な推定の試み. *験震時報*, **77**, 111-118.
- 2* 鬼澤真也, 新堀敏基, 福井敬一, 2013: 遠望カメラ画像による噴煙高度の把握とマグマ噴出率の推定—2011年3月13日霧島山新燃岳噴火の事例—. *験震時報*, **77**, 119-138.
- 3* 新堀敏基, 桜井利幸, 田原基行, 福井敬一, 2013: 気象レーダー・衛星による火山噴煙観測—2011年霧島山(新燃岳)噴火の事例—. *験震時報*, **77**, 139-214.
- 4* 鬼澤真也, 新堀敏基, 福井敬一, 安藤忍, 弘瀬冬樹, 木村一洋, 吉田康宏, 岩切一宏, 吉田知央, 山本哲也, 吉川澄夫, 2013: 2011年霧島山新燃岳噴火における降灰観測と予測. *験震時報*, **77**, 215-222.
- 5 新堀敏基, 高木朗充, 山内洋, 佐藤英一, 福井敬一, 菅井明, 林勇太, 林洋介, 長谷川嘉彦, 真木雅之, 2014: 気象レーダーで観測された2013年8月18日桜島噴火に伴う噴煙エコー. *火山噴火予知連絡会会報*, **116**, 253-259.
- 清野直子 1 清野直子, 中野辰美, 能登美之, 大野恭治, 2013: ゾンデ飛翔予測プログラムの精度検証とTOMACS観測への適用. *気象研究所研究報告*, **65**, 1-14.
- 関山剛 1 中島映至, 鶴田治雄, 滝川雅之, 森野悠, 関山剛, 梶野瑞王, 渡邊明, 篠原厚, 北和之, 2013: (特集) 地球科学分野における活動と緊急災害時における研究者の対応. *Radioisotopes*, **62**, 761-766.
- 瀬古弘 1* Kawabata, T., Y. Shoji, H. Seko and K. Saito, 2013: A numerical study on a mesoscale convective system over a subtropical island with 4D-Var assimilation of GPS slant total delays. *J. Meteor. Soc. Japan*, **91**, 705-721.
- 2 Seko, H., T. Tsuyuki, K. Saito and T. Miyoshi, 2013: Development of a two-way nested LETKF system for cloud-resolving model. *Data, Assimilation for Atmospheric, Oceanic and Hydrologic Applications*, **2**, 489-507.
- 3 Seko, H., K. Saito, T. Tsuyuki, M. Kunii and T. Miyoshi, 2013: Data Assimilation Experiments of Tornado occurring on 6th May 2012. *CAS/JSC WGNE Res. Activ. Atmos. Ocea. Modell.*, **43**, 1.13-1.14.
- 4* 児玉安正, 佐藤悠, 石田祐宣, 堀之内征太郎, 瀬古弘, 津田敏隆, 橋口浩之, 古本淳一, 東邦昭, 2013: 青森県津軽平野で行われた冬季季節風とヤマセの高層気象観測, および気象庁非静力学モデルを用いたダウンスケール実験. *天気*, **60**, 5-14.
- 5 Origuchi, S., K. Saito, H. Seko, T. Kuroda and W. Mashiko, 2013: Triple Eyewall Experiment of the 2012 typhoon “BOLAVEN” using Cloud Resolving Ensemble Forecast. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling*, **43**, 5.09-5.10.
- 6* Duc, L., K. Saito and H. Seko, 2013: Spatial-temporal fractions verification for high resolution ensemble forecasts. *Tellus*, **65**, 18171, doi: 10.3402/tellusa.v65i0.18171
- 7* Saito, K., T. Tsuyuki, H. Seko, F. Kimura, T. Tokioka, T. Kuroda, L. Duc, K. Ito, T. Oizumi, G. Chen, J. Ito and the SPIRE Field 3 Mesoscale NWP group, 2013: Super high-resolution mesoscale weather prediction. *Journal of Physics: Conference Series*, **454**, 6, doi10.1088/1742-6596/454/1/012073.
- 高木朗充 1* 高木朗充, 新堀敏基, 山本哲也, 白土正明, 平祐太郎, 加藤幸司, 福井敬一, 2013: 物理観測による新燃岳の噴火規模の即時的な推定の試み. *験震時報*, **77**, 111-118.
- 2 新堀敏基, 高木朗充, 山内洋, 佐藤英一, 福井敬一, 菅井明, 林勇太, 林洋介, 長谷川嘉彦, 真木雅之, 2014: 気象レーダーで観測された2013年8月18日桜島噴火に伴う噴煙エコー. *火山噴火予知連絡会会報*, **116**, 253-259.
- 高藪出 1* 高橋潔, 高藪出, 石崎紀子, 塩釜秀夫, 松井哲哉, 田中信行, 江守正多, 2013: 3種の力学的ダウンスケーリングシナリオを用いた我が国のブナ林適域. *土木学会論文集*,

- 69(5), I_161 - I_170.**
- 田尻拓也 1 三隅良平, 下瀬健一, 岩崎杉紀, 大東忠保, 佐藤陽祐, 鶴沼昂, 大竹秀明, 古関俊也, 斎藤篤思, 橋本明弘, 山下克也, 田尻拓也, 竹見哲也, 藤吉康志, 村上正隆, 中井専人, 李根玉, 2013: 第16回国際雲・降水会議 (ICCP2012) の報告. *天気*, **60**, 177-185.
- 2* Tajiri, T., K. Yamashita, M. Murakami, N. Orikasa, A. Saito, K. Kusunoki, and L. Lilie, 2013: A novel adiabatic-expansion-type cloud simulation chamber. *J. Meteor. Soc. Japan*, **91**, 687-704.
- 3 Yamashita, K., T. Tajiri and M. Murakami, 2013: CCN and IN parameter of Arizona Test Dust derived from laboratory experiments to simulate ice crystal formation by condensation freezing. *Nucleation and Atmospheric Aerosols, AIP/Conference Proceeding 1527*, 918-921.
- 4 田尻拓也, 山下克也, 村上正隆, 2014: 広範なエアロゾル種の雲核・氷晶核能. 低温科学第72巻「雲とエアロゾルをつなぐ観測とモデリング」, **72**, 29-39.
- 5 山下克也, 村上正隆, 田尻拓也, 橋本明弘, 2014: ダスト粒子からの雲粒・氷晶発生を扱う詳細雲微物理ボックスモデルの開発. 低温科学第72巻「雲とエアロゾルをつなぐ観測とモデリング」, **72**, 79-86
- 田中泰宙 1* Kang, J.-Y., T. Y. Tanaka and M. Mikami, 2014: Effect of dead leaves on early spring dust emission in East Asia. *Atmospheric Environment*, **86**, 35-46, doi:10.1016/j.atmosenv.2013.12.007
- 2* K. Osada, S. Ura, M. Kagawa, M. Mikami, T. Y. Tanaka, S. Matoba, K. Aoki, M. Shinoda, Y. Kurosaki, M. Hayashi, A. Shimizu, and M. Uematsu, 2014: Wet and dry deposition of mineral dust particles in Japan. *Atmospheric Chemistry and Physics*, **14(2)**, 1107-1121.
- 津口裕茂 1 津口裕茂 2014: 集中豪雨が発生する総観〜メソ α スケール環境場の統計解析 - 7月(梅雨末期)の九州地方について -. *平成25年度予報技術研修テキスト*, **72-83**.
- 2 釜江陽一, 川瀬宏明, 柳瀬亘, 茂木耕作, 杉本憲彦, 木下武也, 吉田聡, 岩谷忠幸, 江守正多, 高根雄也, 津口裕茂, 柄本英伍, 山本由佳, 大竹潤, 山下陽介, 宇野史睦, 山崎哲, 2013: 第3回気象気候若手研究者交流会〜若手の視点からアウトリーチ・科学コミュニケーションを考える〜. *天気*, **60**, 681-690
- 3 川島正行, 津口裕茂, 山田芳則, 榎本剛, 清水慎吾, 小野耕介, 中野満寿男, 山田広幸, 伊藤純至, 2014: 第15回非静力学モデルに関するワークショップの報告. *天気*, **61**, 211-218.
- 対馬弘晃 1* 対馬弘晃, 林 豊, 前田憲二, 横田崇, 川上博隆, 平田怜, 吉村健二, 遠藤清隆, 木田洋祐, 2013: 沖合津波観測データ同化システムの開発. *土木工学論文集 B2(海岸工学)*, **69(2)**, I_446-I_450.
- 2* Oishi, Y., M. D. Piggott, T. Maeda, S. C. Kramer, G. S. Collins, H. Tsushima, and T. Furumura, 2013: Three-dimensional tsunami propagation simulations using an unstructured mesh finite element model. *J. Geophys. Res. Solid Earth*, **118**, 2998-3018, doi:10.1002/jgrb.50225.
- 辻野博之 1* Nakano, H., H. Tsujino and K. Sakamoto, 2013: Tracer transport in cold-core rings pinched off from the Kuroshio Extension in an eddy-resolving ocean general circulation model. *J. Geophys. Res.*, **118**, 5461-6488.
- 2 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2014: 海洋モデルの過去再現実験で見られた熱帯太平洋の十年規模変動. *研究会「長期予報と大気大循環」拡張要旨*, **5**.
- 3 坂本圭, 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2013: 日本近海2kmモデルの開発 - 次世代日本沿岸監視予測システムに向けて. *測候時報第80巻特別号*, S99-S109.
- 4* Adachi, Y., Yukimoto, S., M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Simulations of climate change with interactive atmospheric chemistry and carbon cycle for the mid-19th century through the end of the 21st century by a new earth system model: MRI-ESM1. *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.

- 5* Sakamoto, K., H. Tsujino, M. Hirabara, H. Nakano and G. Yamanaka, 2013: A practical scheme to introduce explicit tidal forcing into an OGCM. *Ocean Sci.*, **9**, 1089-1108.
- 6* Fujii, Y., T. Nakano, N. Usui, S. Matsumoto, H. Tsujino and M. Kamachi, 2013: Pathways of the North Pacific Intermediate Water identified through the tangent linear and adjoint models of an ocean general circulation model. *Journal of Geophysical Research*, **118**, 2035-2051.
- 7* Danabasoglu, G., S. G. Yeager, D. Bailey, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Boning, A. Bozec, V. Canuto, C. Cassou, E. Chassignet, A. C. Coward, S. Danilov, N. Diansky, H. Drange, R. Farneti, E. Fernandez, P. G. Fogli, G. Forget, Y. Fujii, S. M. Griffies, A. Gusev, P. Heimbach, A. Howard, T. Jung, M. Kelley, W. G. Large, A. Leboissetier, J. Lu, G. Madec, S. J. Marsland, S. Masina, A. Navarra, A. J. G. Nurser, A. Pirani, D. Salas y Melia, B. L. Samuels, M. Scheinert, D. Sidorenko, A.-M. Treguier, H. Tsujino, P. Uotila, S. Valcke, A. Voldoire, and Q. Wang, 2014: North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. *Ocean Modelling*, **73**, 76-107. DOI:10.1016/j.ocemod.2013.10.005.
- 坪井一寛 1* Tsuboi, K., H. Matsueda, Y. Sawa, Y. Niwa, M. Nakamura, D. Kuboike, K. Saito, H. Ohmori, S. Iwatsubo, H. Nishi, Y. Hanamiya, K. Tsuji and Y. Baba, 2013: Evaluation of a new JMA aircraft flask sampling system and laboratory trace gas analysis system. *Atmospheric Measurement Techniques*, **6**, 1257-1270, doi:10.5194/amt-6-1257-2013.
- 2* Niwa, Y., K. Tsuboi, H. Matsueda, Y. Sawa, T. Machida, M. Nakamura, T. Kawasato, K. Saito, S. Takatsuji, K. Tsuji, H. Nishi, K. Dehara, Y. Baba, D. Kuboike, S. Iwatsubo, H. Ohmori and Y. Hanamiya, 2014: Seasonal Variations of CO₂, CH₄, N₂O and CO in the Mid-Troposphere over the Western North Pacific Observed Using a C-130H Cargo Aircraft. *気象集誌*, **92**, 55-70.
- 3* Ishidoya, S., K. Tsuboi, H. Matsueda, S. Murayama, S. Taguchi, Y. Sawa, Y. Niwa, K. Saito, K. Tsuji, Y. Baba, S. Takatsuji, K. Dehara and H. Fujiwara, 2014: New atmospheric O₂/N₂ ratio measurements over the western North Pacific using a cargo aircraft C-130H. *SOLA*, **10**, 23-28.
- 露木 義 1 Seko, H., T. Tsuyuki, K. Saito and T. Miyoshi, 2013: Development of a two-way nested LETKF system for cloud-resolving model. *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications*, **2**, 489-507.
- 2 Seko, H., K. Saito, T. Tsuyuki, M. Kunii and T. Miyoshi, 2013: Data Assimilation Experiments of Tornado occurring on 6th May 2012, *CAS/JSC WGNE Res. Activ. Atmos. Ocea. Modell.*, **43**, 1.13-1.14.
- 3 Saito, K., T. Tsuyuki, H. Seko, F. Kimura, T. Tokioka, T. Kuroda, L. Duc, K. Ito, T. Oizumi, G. Chen, J. Ito and the SPIRE Field 3 Mesoscale NWP group, 2013: Super high-resolution mesoscale weather prediction. *Journal of Physics: Conference Series*, **454**, 6.
- 出牛 真 1* Nakamura, T., H. Akiyoshi, M. Deushi, K. Miyazaki, C. Kobayashi, K. Shibata and T. Iwasaki, 2013: A multimodel comparison of stratospheric ozone data assimilation based on an ensemble Kalman filter approach. *J. Geophys. Res.*, **118**, 3848-3868, doi:10.1002/jgrd.50338.
- 豊田隆寛 1* Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation. *Journal of Oceanography*, **70**, 45-62.
- 2* Toyoda, T., T. Awaji, S. Masuda, N. Sugiura, H. Igarashi, Y. Sasaki, Y. Hiyoshi, Y. Ishikawa, S.-I. Saitoh, S. Yoon, T. In, and M. J. Kishi, 2013: Improved state estimations of lower trophic ecosystems in the global ocean based on Green's function approach. *Progr. Oceanogr.*, **119**, 90-107, doi:10.1016/j.pocean.2013.08.008.
- 3 Ishikawa, Y. T. Awaji, M. Ikeda, and T. Toyoda, 2014: Coupling of physical and bio-geochemical process and monitoring ocean circulation using data assimilation system. *Western Pacific Air-Sea Interaction Study*, Eds. M.

- Uematsu, Y. Yokouchi, Y. W. Watanabe, S. Takeda, and Y. Yamanaka, 237-241, doi:10.5047/w-pass.a04.003.
- 4 Balmaseda, M. A., F. Hernandez, A. Storto, M. Palmer, L. Shi, G. Smith, T. Toyoda, M. Valdivieso, O. Alves, B. Barnier, T. Boyer, Y. Chang, G. A. Chepurin, N. Ferry, G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Köhl, T. Lee, M. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd, O. Wang, Y. Xue, M. Chevallier, J.-F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, K. Wilmer-Becher, and F. Gaillard, 2014: The ocean reanalyses intercomparison project (ORA-IP). *CLIVAR Exchanges*, **64**, 3-7.
- 5 Palmer, M., M. Balmaseda, Y.-S. Chang, G. Chepurin, Y. Fujii, S. Good, S. Guinehut, F. Hernandez, M. Martin, S. Masuda, K. A. Peterson, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, and Y. Xue, 2014: CLIVAR-GSOP/GODAE intercomparison of ocean heat content: initial results. *CLIVAR Exchanges*, **64**, 8-10.
- 6 Alves, O., L. Shi, R. Wedd, M. Balmaseda, Y. Chang, G. Chepurin, Y. Fujii, F. Gaillard, S. Good, S. Guinehut, K. Haines, F. Hernandez, T. Lee, M. Palmer, K. A. Peterson, S. Masuda, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, X. Wang, and Y. Yin, 2014: an assessment of upper ocean salinity reanalyses from CLIVAR GSOP/GODAE systems. *CLIVAR Exchanges*, **64**, 11-14.
- 7 Hernandez, F., N. Ferry, M. Balmaseda, Y.-S. Chang, G. Chepurin, Y. Fujii, S. Guinehut, A. Köhl, M. Martin, B. Meyssignac, L. Parent, K. A. Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, X. Wang, Y. Xue, and Y. Yin, 2014: Sea level intercomparison: Initial results. *CLIVAR Exchanges*, **64**, 18-21.
- 8 Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. Martin, K. A. Peterson, S. Good, M. Valdivieso, K. Haines, A. Storto, A. Köhl, Y. Yin, L. Shi, G. Smith, Y. Chang, G. Vernieres, X. Wang, O. Wang, T. Lee, and M. Balmaseda, 2014: Mixed layer depth intercomparison among global ocean syntheses/reanalyses. *CLIVAR Exchanges*, **64**, 22-24.
- 9 Hernandez, F., N. Ferry, M. Balmaseda, Y.-S. Chang, G. Chupurin, Y. Fujii, S. Good, S. Guinehut, A. Köhl, M. Martin, L. Parent, K. A. Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, X. Wang, Y. Xue, and Y. Yin, 2014: ORA-IP depth of the 20°C isotherm: First results. *CLIVAR Exchanges*, **64**, 25-27.
- 10 Valdivieso, M., K. Haines, M. Balmaseda, B. Barnier, Y. Chang, N. Ferry, Y. Fujii, A. Köhl, T. Lee, M. Martin, A. Storto, T. Toyoda, X. Wang, J. Waters, Y. Xue, and Y. Yin, 2014: Heat fluxes from ocean and coupled reanalyses. *CLIVAR Exchanges*, **64**, 28-31.
- 11 Smith, G., M. Chevallier, J.-F. Lemieux, F. Dupont, G. Vernieres, A. Storto, T. Toyoda, Y. Fujii, Y. Chang, M. Valdivieso, K. A. Peterson, N. Ferry, F. Hernandez, M. A. Balmaseda, S. Keeley, and X. Wang, 2014: Preliminary evaluation of sea ice fields from the ocean reanalyses intercomparison project. *CLIVAR Exchanges*, **64**, 32-34.
- 永井智広 1* Sakai, T., F. Russo, D. N. Whiteman, D. D. Turner, I. Veselovskii, S. H. Melfi, T. Nagai and Y. Mano, 2013: Liquid water cloud measurements using the Raman lidar technique: current understanding and future research needs. *J. Atmos. Ocean. Tech.*, **30**, 1337-1353, doi: 10.1175/JTECH-D-12-00099.1.
- 2* Sakai, T., T. Nagai, N. Orikasa, Y. Zaizen, K. Yamashita, Y. Mano and M. Murakami, 2014: Aerosol characterization by dual-wavelength polarization lidar measurements over Kochi, Japan during the warm seasons of 2008 to 2010. *J. Meteor. Soc. Japan.*, **91**, 789-800.
- 3 Tetsu, S., D. N. Whiteman, F. Russo, D. D. Turner, I. Veselovskii, S. H. Melfi, T. Nagai and Y. Mano, 2013: Liquid Water Cloud Measurements Using the

- Raman Lidar Technique: Current Understanding and Future Research Needs. *J. Atmos. Oceanic Technol.*, **30**, 1337-1353.
- 仲江川敏之 1* Kobashi, T., D. T. Shindell, K. Kodera, J. E. Box, T. Nakaegawa and K. Kawamura, 2013: On the origin of multi-decadal to centennial Greenland temperature anomalies over the past 800 years. *Climate of the Past*, **9**, 583-596.
- 2* Nakayama, K., Y. Maruya, T. Nakaegawa, T. Okada, K. Komai and T. Ishida, 2013: Statistical downscaling of wind projects recovery from hypoxia in Tokyo Bay will increasingly be enhanced by "strong wind" events in the future. *Hydrological Processes*, **27**, 3280-3291, doi:10.1002/hyp.9829.
- 3* Nakaegawa, T., A. Kitoh and M. Hosaka, 2013: River discharge projection with MRI-AGCMS (20-km horizontal resolution). *Hydrological Processes*, **27**, 3301-3318, doi:10.1002/hyp.9831.
- 4* Fabrega, J., T. Nakaegawa, R. Pinzon, K. Nakayama, O. Arakawa, SOUSEI Theme-C modeling group, 2013: Hydroclimate projections for Panama in the 21st Century. *Hydrological Research Letters*, **7**, 23-29, doi:10.3178/hrl.7.23
- 5* Champathong, A., D. Komori, M. Kiguchi, T. Sukkhapunnapan, T. Nakaegawa and T. Oki, 2013: Future projection of mean river discharge climatology for the Chao Phraya River basin. *Hydrological Research Letters*, **7**, 36-41, doi:10.3178/hrl.7.36.
- 6* Nakaegawa, T., A. Kitoh, Y. Ishizaki, S. Kusunoki and H. Murakami, 2013: Caribbean low-level jets and accompanying moisture fluxes in a global warming climate projected with CMIP3 multi-model ensemble and fine-mesh atmospheric general circulation models. *International Journal of Climatology*, doi:10.1002/joc.3733.
- 7* Nakaegawa, T., A. Kitoh, H. Murakami and S. Kusunoki, 2013: Maximum 5-day Rainfall Total and the Maximum Number of Consecutive Dry Days over Central America in the future climate projected by an atmospheric general circulation model with three different horizontal resolutions. *Theoretical and Applied Climatology*, doi:10.1007/s00704-013-0934-9.
- 8* Kobashi, T., K. Goto-Azuma, J. E. Box, C.-C. Gao and T. Nakaegawa, 2013: Causes of Greenland temperature variability over the past 4000 yr. *Climate of the Past*, **9**, 2299-2317, doi: 10.5194/cp-9-2299-2013.
- 9* Charles, A., K. Shelton, T. Nakaegawa, H. Hendon, and Y. Kuleshov, 2013: Prediction of tropical cyclone activity with coarse resolution global climate models. *MODSIM2013*, 2555-2561.
- 10* Charles, A., E. Miles, A. Griesser, R. de Wit, K. Shelton, A. Cottrill, C. Spillman, H. Hendon, P. McIntosh, T. Nakaegawa, T. Atalifo, B. Prakash, S. Seuseu, S. Nihmei, J. Church, D. Jones, and Y. Kuleshov, 2013: Dynamical seasonal prediction of climate extremes in the Pacific. *MODSIM2013*, 2841-2847.
- 中野英之 1* Nakano, H., H. Tsujino and K. Sakamoto, 2013: Tracer transport in cold-core rings pinched off from the Kuroshio Extension in an eddy-resolving ocean general circulation model. *J. Geophys. Res.*, **118**, 5461-6488.
- 2 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2014: 海洋モデルの過去再現実験で見られた熱帯太平洋の十年規模変動. 研究会「長期予報と大気大循環」拡張要旨, 5.
- 3 Ishii, M., D. Sasano, N. Kosugi, H. Nakano, K. Enyo, S. Saito, T. Nakano, T. Midorikawa and H. Y. Inoue, 2013: Trends in ocean acidification in the western North Pacific subtropical and tropical zones. *IMBER Newsletters*, **25**, 2.7.
- 4* Ishii, M., R. A. Feely, K. B. Rodgers, G. -H. Park, R. Wanninkhof, D. Sasano, H. Sugimoto, C. E. Cosca, S. Nakaoka, M. Telszewski, Y. Nojiri, S. E. Mikaloff Fletcher, Y. Niwa, P. K. Patra, V. Valsala, H. Nakano, I. Lima, S. C. Doney, E. T. Buitenhuis, O. Aumont, J. P. Dunne, A. Lenton and T. Takahashi, 2014: Sea-air CO₂ fluxes in the Pacific Ocean for the period 1990-2009. *Biogeosciences*, **11**, 709-734, doi:10.5194/bg-11-709-2014.
- 5 坂本圭, 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2013: 日本近海 2km モデルの開発 -次世代日本沿岸監視予測システムに向けて. 測候時報第 80 巻特別号, S99-S109.

- 6* Sakamoto, K., H. Tsujino, M. Hirabara, H. Nakano and G. Yamanaka, 2013: A practical scheme to introduce explicit tidal forcing into an OGCM. *Ocean Sci.*, **9**, 1089-1108.
- 丹羽洋介 1 Tsuboi, K., H. Matsueda, Y. Sawa, Y. Niwa, M. Nakamura, D. Kuboike, K. Saito, H. Ohmori, S. Iwatsubo, H. Nishi, Y. Hanamiya, K. Tsuji and Y. Baba, 2013: Evaluation of a new JMA aircraft flask sampling system and laboratory trace gas analysis system. *Atmospheric Measurement Techniques*, **6**, 1257-1270, doi:10.5194/amt-6-1257-2013.
- 2* Peylin, P., R. M. Law, K. R. Gurney, F. Chevallier, A. R. Jacobson, T. Maki, Y. Niwa, P. K. Patra, W. Peters, P. J. Rayner, C. Rodenbeck, I. T. van der Laan-Luijkx and X. Zhang, 2013: Global atmospheric carbon budget: results from an ensemble of atmospheric CO₂ inversions. *Biogeosciences*, **10**, 6699-6720, doi: 10.5194/bg-10-6699-2013.
- 3 町田敏暢, 松枝秀和, 澤庸介, 丹羽洋介, 江藤仁樹, 2013: 第40回環境賞 環境大臣賞・優秀賞 定期航空路線を利用した温室効果ガスのグローバル観測. *季刊 環境研究*, **172**, 4-13.
- 4* Niwa, Y., K. Tsuboi, H. Matsueda, Y. Sawa, T. Machida, M. Nakamura, T. Kawasato, K. Saito, S. Takatsuji, K. Tsuji, H. Nishi, K. Dehara, Y. Baba, D. Kuboike, S. Iwatsubo, H. Ohmori and Y. Hanamiya, 2014: Seasonal Variations of CO₂, CH₄, N₂O and CO in the Mid-Troposphere over the Western North Pacific Observed Using a C-130H Cargo Aircraft. *気象集誌*, **92**, 55-70.
- 5* Ishidoya, S., K. Tsuboi, H. Matsueda, S. Murayama, S. Taguchi, Y. Sawa, Y. Niwa, K. Saito, K. Tsuji, Y. Baba, S. Takatsuji, K. Dehara and H. Fujiwara, 2014: New atmospheric O₂/N₂ ratio measurements over the western North Pacific using a cargo aircraft C-130H. *SOLA*, **10**, 23-28.
- 6* Ishii, M., R. A. Feely, K. B. Rodgers, G. -H. Park, R. Wanninkhof, D. Sasano, H. Sugimoto, C. E. Cosca, S. Nakaoka, M. Telszewski, Y. Nojiri, S. E. Mikaloff Fletcher, Y. Niwa, P. K. Patra, V. Valsala, H. Nakano, I. Lima, S. C. Doney, E. T. Buitenhuis, O. Aumont, J. P. Dunne, A. Lenton and T. Takahashi, 2014: Sea-air CO₂ fluxes in the Pacific Ocean for the period 1990-2009. *Biogeosciences*, **11**, 709-734, doi:10.5194/bg-11-709-2014.
- 庭野匡思 1* Aoki, T., K. Kuchiki, M. Niwano, S. Matoba, J. Uetake, K. Masuda and H. Ishimoto, 2013: Numerical Simulation of Spectral Albedos of Glacier Surfaces Covered with Glacial Microbes in Northwestern Greenland. *RADIATION PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)*, Robert Cahalan and Jurgen Fischer (Eds), *AIP Conf. Proc.*, **1531**, 176-179, doi:10.1063/1.4804735.
- 2* Hori, M., T. Tanikawa, Te. Aoki, A. Hachikubo, K. Sugiura, K. Kuchiki and M. Niwano, 2013: Possibility to discriminate snow types using brightness temperatures in the thermal infrared wavelength region. *RADIATION PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)*, Robert Cahalan and Jurgen Fischer (Eds), *AIP Conf. Proc.*, **1531**, 316-319, doi:10.1063/1.4804770.
- 3 Hori, M., Te. Aoki, T. Tanikawa, A. Hachikubo, K. Sugiura, K. Kuchiki and M. Niwano, 2013: Modeling angular dependent spectral emissivity of snow and ice in the thermal infrared atmospheric window. *Applied Optics*, **52**, 7243-7255.
- 4 山口悟, 庭野匡思, 荒川逸人, 西村浩一, 2013: Snow Grain Size Workshop - Measurements and Applications 参加報告. *雪氷*, **75**, 365-371.
- 橋本明弘 1* Xue, L., A. Hashimoto, M. Murakami, R. Rasmussen, S. A. Tessendorf, D. Breed, B. Lawrence, S. Parkinson, P. Holbrook and D. Blestrud, 2013: Implementation of a Silver Iodide cloud seeding parameterization in WRF. Part I: Model description and Idealized 2D sensitivity tests. *J. Appl. Meteor. Climatol.*, **52**, 1433-1457.
- 2 橋本明弘, 2013: 雲物理過程. 図説 地球環境の事典. 朝日書店,

- 3 橋本明弘, 2014: 高精度ビン法雲微物理モデルの開発. *低温科学第 72 巻「雲とエアロゾルをつなぐ観測とモデリング」*, **72**, 71-78.
- 4 山下克也, 村上正隆, 田尻拓也, 橋本明弘, 2014: ダスト粒子からの雲粒・氷晶発生を扱う詳細雲微物理ボックスモデルの開発. *低温科学第 72 巻「雲とエアロゾルをつなぐ観測とモデリング」*, **72**, 79-86.
- 5 三隅良平, 下瀬健一, 岩崎杉紀, 大東忠保, 佐藤陽祐, 鶴沼昂, 大竹秀明, 古関俊也, 斎藤篤思, 橋本明弘, 山下克也, 田尻拓也, 竹見哲也, 藤吉康志, 村上正隆, 中井專人, 李根玉, 2013: 第 16 回国際雲・降水会議 (ICCP2012) の報告. *天気*, **60**, 177-185.
- 林 豊 1 Gubler, A., P. A. Catalan and Y. Hayashi, 2013: Probabilistic Tsunami Hazard Assessment for Near-field Events, Proceedings of the 7th International Conference on Coastal Dynamics, 759-768.
- 2* 対馬弘晃, 林 豊, 前田憲二, 横田崇, 川上博隆, 平田怜, 吉村健二, 遠藤清隆, 木田洋祐, 2013: 沖合津波観測データ同化システムの開発. *土木工学論文集 B2(海岸工学)*, **69(2)**, I_446-I_450.
- 林元直樹 1* Nakamura, T., M. Nakano, N. Hayashimoto, N. Takahashi, H. Takenaka, T. Okamoto, E. Araki and Y. Kaneda, 2014: Anomalous large seismic amplifications in the seafloor area off the Kii peninsula. *Marine Geophysical Research*, doi:10.1007/s11001-014-9211-2.
- 平原幹俊 1 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2014: 海洋モデルの過去再現実験で見られた熱帯太平洋の十年規模変動. *研究会「長期予報と大気大循環」拡張要旨*, **5**.
- 2 坂本圭, 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2013: 日本近海 2km モデルの開発 -次世代日本沿岸監視予測システムに向けて-. *測候時報第 80 巻特別号*, S99-S109.
- 3* Sakamoto, K., H. Tsujino, M. Hirabara, H. Nakano and G. Yamanaka, 2013: A practical scheme to introduce explicit tidal forcing into an OGCM. *Ocean Sci.*, **9**, 1089-1108.
- 弘瀬冬樹 1* Hirose, F., and K. Maeda, 2013: Simulation of recurring earthquakes along the Nankai trough and their relationship to the Tokai long-term slow slip events taking into account the effect of locally elevated pore pressure and subducting ridges. *J. Geophys. Res., Solid Earth*, **118**, 1-18, doi:10.1002/jgrb.50287.
- 2* 鬼澤真也, 新堀敏基, 福井敬一, 安藤忍, 弘瀬冬樹, 木村一洋, 吉田康宏, 岩切一宏, 吉田知央, 山本哲也, 吉川澄夫, 2013: 2011 年霧島山新燃岳噴火における降灰観測と予測. *験震時報*, **77**, 215-222.
- 藤井陽介 1* Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation. *Journal of Oceanography*, **70**, 45-62.
- 2* Fujii, Y., T. Nakano, N. Usui, S. Matsumoto, H. Tsujino and M. Kamachi, 2013: Pathways of the North Pacific Intermediate Water identified through the tangent linear and adjoint models of an ocean general circulation model. *Journal of Geophysical Research*, **118**, 2035-2051.
- 3* Danabasoglu, G., S. G. Yeager, D. Bailey, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Boning, A. Bozec, V. Canuto, C. Cassou, E. Chassignet, A. C. Coward, S. Danilov, N. Diansky, H. Drange, R. Farneti, E. Fernandez, P. G. Fogli, G. Forget, Y. Fujii, S. M. Griffies, A. Gusev, P. Heimbach, A. Howard, T. Jung, M. Kelley, W. G. Large, A. Leboissetier, J. Lu, G. Madec, S. J. Marsland, S. Masina, A. Navarra, A. J. G. Nurser, A. Pirani, D. Salas y Melia, B. L. Samuels, M. Scheinert, D. Sidorenko, A.-M. Treguier, H. Tsujino, P. Uotila, S. Valcke, A. Voldoire, and Q. Wang, 2014: North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. *Ocean Modelling*, **73**, 76-107. DOI:10.1016/j.ocemod.2013.10.005.
- 4* Sugiura, N., Masuda, S., Fujii, Y., Kamachi, M., Ishikawa, Y., and Awaji, T. 2014: A framework for interpreting regularized state estimation. *Mon. Wea. Rev.*, **142**, 386-400. DOI:10.1175/MWR-D-12-00231.1.

- 5 川畑拓矢, 上野玄太, 中野慎也, 小守信正, 増田周平, 茂木耕作, 若松剛, 藤井陽介, 2013: 第3回データ同化ワークショップの報告. *天気*, **60(8)**, 633-635.
- 6 Balmaseda, M. A., F. Hernandez, A. Storto, M. Palmer, L. Shi, G. Smith, T. Toyoda, M. Valdivieso, O. Alves, B. Barnier, T. Boyer, Y. Chang, G. A. Chepurin, N. Ferry, G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Köhl, T. Lee, M. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd, O. Wang, Y. Xue, M. Chevallier, J-F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, K. Wilmer-Becker, F. Gaillard, 2014: The Ocean Reanalyses Intercomparison Project (ORA-IP). *CLIVAR Exchanges*, **19**, 3-7.
- 7 Palmer, M., M. Balmaseda, Y.-S. Chang, G. Chepurin, Y. Fujii, S. Good, S. Guinehut, F. Hernandez, M. Martin, S. Masuda, K.A. Peterson, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang and Y. Xue, 2014: CLIVAR-GSOP/GODAE intercomparison of ocean heat content: initial results. *CLIVAR Exchanges*, **19**, 8-10.
- 8 Alves, O. L., Shi, R. Wedd, M. Balmaseda, Y. Chang, G. Chepurin, Y. Fujii, F. Gaillard, S. Good, S. Guinehut, K. Haines, F. Hernandez, T. Lee, M. Palmer, K.A. Peterson, S. Masuda, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, X. Wang, Y. Yin, 2014: An Assessment of Upper Ocean Salinity Reanalyses from CLIVAR GSOP/GODAE Systems. *CLIVAR Exchanges*, **19**, 11-14.
- 9 Storto, A., S. Masina, M. Balmaseda, S. Guinehut, M. Martin, K.A. Peterson, S. Good, M. Valdivieso, K. Haines, A. Köhl, Y. Yin, L. Shi, G. Smith, Y. -S. Chang, G. Vernieres, X. Wang, O. Wang, T. Lee N. Ferry, Y. Fujii, F. Hernandez, Y. Ishikawa, S. Masuda and the ORA-IP Group, 2014: Comparison of Steric Sea Level from Ocean Reanalyses and Objective Analyses. *CLIVAR Exchanges*, **19**, 15-17.
- 10 Hernandez, F., N. Ferry, M. Balmaseda, Y.-S. Chang, G. Chepurin, Y. Fujii, S. Guinehut, A. Köhl, M. Martin, B. Meyssignac, L. Parent, K.A. Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, X. Wang, Y. Xue, and Y. Yin, 2014: Sea Level Inter Comparison: Initial results. *CLIVAR Exchanges*, **19**, 18-21.
- 11 Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. Martin, K. A. Peterson, S. Good, M. Valdivieso, K. Haines, A. Storto, A. Köhl, Y. Yin, L. Shi, G. Smith, Y. Chang, G. Vernieres, X. Wang, O. Wang, T. Lee, M. Balmaseda, 2014: Mixed layer depth intercomparison among global ocean syntheses/ reanalyses. *CLIVAR Exchanges*, **19**, 22-24.
- 12 Hernandez, F., N. Ferry, M. Balmaseda, Y.-S. Chang, G. Chepurin, Y. Fujii, S. Good, S. Guinehut, A. Köhl, M. Martin, L. Parent, K.A. Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, X. Wang, Y. Xue, and Y. Yin, 2014: ORA-IP Depth of the 20°C isotherm : First results. *CLIVAR Exchanges*, **19**, 25-27.
- 13 Valdivieso, M., K. Haines, M. Balmaseda, B. Barnier, Y. Chang, N. Ferry, Y. Fujii, A. Köhl, T. Lee, M. Martin, A. Storto, T. Toyoda, X. Wang, J. Waters, Y. Xue and Y. Yin, 2014: Heat fluxes from ocean and coupled reanalyses. *CLIVAR Exchanges*, **19**, 28-31.
- 14 Smith, G., M. Chevallier, J-F. Lemieux, F. Dupont, G. Vernieres, A. Storto, T. Toyoda, Y. Fujii, Y. Chang, M. Valdivieso, K. A. Peterson, N. Ferry, F. Hernandez, M. A. Balmaseda, S. Keeley, X. Wang, 2014: Preliminary Evaluation of Sea Ice Fields from the Ocean Reanalyses Intercomparison Project. *CLIVAR Exchanges*, **19**, 32-34.
- 藤部文昭 1* 藤部文昭, 2014: 日本における降水量の極値パラメーターの広域分布特性. *天気*, **61**, 81-90.
- 2* Kumamoto, M., M. Otsuka, T. Sakai, T. Hamagami, H. Kawamura, T. Aoshima and F. Fujibe, 2013: Field experiment on the effects of a nearby asphalt road on

- temperature measurement. *SOLA*, **9**, 56-59, doi:10.2151/sola.2013-013.
- 3* 藤部文昭, 2013: 暑熱 (熱中症) による国内死者数と夏季気温の長期変動. *天気*, **60**, 371-381.
- 4* Fujibe, F., 2013: Clausius-Clapeyron-like relationship in multidecadal changes of extreme short-term precipitation and temperature in Japan. *Atmospheric Science Letters*, **14**, 127-132.
- 5 藤部文昭, 2014: 気象における統計とその問題点. *統計数理研究所共同研究リポート*, (327), 1-10.
- 保坂征宏 1* Nakaegawa, T., A. Kitoh and M. Hosaka, 2013: River discharge projection with MRI-AGCMS (20-km horizontal resolution). *Hydrological Processes.*, **27**, 3301-3318, doi:10.1002/hyp.9831.
- 2* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 干場充之 1* Hoshiha, M. and T. Ozaki, 2013: Earthquake Early Warning and Tsunami Warning of the Japan Meteorological Agency, and their performance for the 2011 off the Pacific Coast of Tohoku Earthquake (Mw9.0). *Early Warning for Geological Disasters*, ISBN:978-3-642-12233-0.
- 2* Hoshiha, M., 2013: Real-Time Correction of Frequency-Dependent Site Amplification Factors for Application to Earthquake Early Warning. *BSSA*, **103**, 3179-3188,
- 前田憲二 1* Hirose, F., and K. Maeda, 2013: Simulation of recurring earthquakes along the Nankai trough and their relationship to the Tokai long-term slow slip events taking into account the effect of locally elevated pore pressure and subducting ridges. *J. Geophys. Res., Solid Earth*, **118**, 1-18, doi:10.1002/jgrb.50287.
- 2 気象研究所 (前田憲二, 弘瀬冬樹, 小林昭夫), 2013: 2011年東北地方太平洋沖地震前に見られた前兆的現象, *地震予知連絡会会報*, **90**, 503-508.
http://cais.gsi.go.jp/YOCHIREN/report/kaihou90/12_06.pdf
- 3* 対馬弘晃, 林 豊, 前田憲二, 横田崇, 川上博隆, 平田怜, 吉村健二, 遠藤清隆, 木田洋祐, 2013: 沖合津波観測データ同化システムの開発. *土木工学論文集 B2(海岸工学)*, **69(2)**, I_446-I_450.
- 眞木貴史 1 近藤裕昭, 山田哲司, 茅野政道, 岩崎俊樹, 堅田元喜, 眞木貴史, 斉藤和雄, 寺田宏明, 鶴田治雄, 2013: 日米気象学会共催「福島第一原子力発電所からの汚染物質の輸送と拡散に関する特別シンポジウムー現状と将来への課題ー」報告. *天気*, **60**, 723-729.
- 2* Peylin, P., R. M. Law, K. R. Gurney, F. Chevallier, A. R. Jacobson, T. Maki, Y. Niwa, P. K. Patra, W. Peters, P. J. Rayner, C. Rodenbeck, I. T. van der Laan-Luijkx and X. Zhang, 2013: Global atmospheric carbon budget: results from an ensemble of atmospheric CO₂ inversions. *Biogeosciences*, **10**, 6699-6720, doi: 10.5194/bg-10-6699-2013.
- 益子 涉 1 Origuchi, S., K. Saito, H. Seko, T. Kuroda and W. Mashiko, 2013: Triple Eyewall Experiment of the 2012 typhoon "BOLAVEN" using Cloud Resolving Ensemble Forecast. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modelling*, **43**, 5.09-5.10.
- 2 折口征二, 斉藤和雄, 瀬古弘, 益子涉, 黒田徹, 2014: 雲解像アンサンブルによる2012年台風第15号の3重眼再現実験. *台風研究会(台風災害の発生メカニズム解明と減災に関する研究集会) 冊子*, 58-62.
- 3* Shoji, Y., H. Yamauchi, W. Mashiko, and E. Sato, 2014: Estimation of Local-scale Precipitable Water Vapor Distribution Around Each GNSS Station Using Slant Path Delay. *SOLA*, **10**, 29-33.
- 増田一彦 1 Aoki, T., K. Kuchiki, M. Niwano, S. Matoba, J. Uetake, K. Masuda and H. Ishimoto, 2013: Numerical Simulation of Spectral Albedos of Glacier Surfaces Covered with Glacial Microbes in Northwestern Greenland. *RADIATION*

- PROCESSES IN THE ATMOSPHERE AND OCEAN (IRS2012)*, Robert Cahalan and Jurgen Fischer (Eds), *AIP Conf. Proc.*, **1531**, 176-179, doi:10.1063/1.4804735.
- 松枝秀和 1* Tsuboi, K., H. Matsueda, Y. Sawa, Y. Niwa, M. Nakamura, D. Kuboike, K. Saito, H. Ohmori, S. Iwatsubo, H. Nishi, Y. Hanamiya, K. Tsuji and Y. Baba, 2013: Evaluation of a new JMA aircraft flask sampling system and laboratory trace gas analysis system. *Atmospheric Measurement Techniques*, **6**, 1257-1270, doi:10.5194/amt-6-1257-2013.
- 2* Inoue, M., I. Morino, O. Uchino, Y. Miyamoto, Y. Yoshida, T. Yokota, T. Machida, Y. Sawa, H. Matsueda, C. Sweeney, P. P. Tans, A. E. Andrews, S. C. Biraud, T. Tanaka, S. Kawakami and P. K. Patra, 2013: Validation of XCO₂ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. *Atmospheric Chemistry and Physics*, **13**, 9771-9778, doi: 10.5194/acp-13-9771-2013.
- 3 町田敏暢, 松枝秀和, 澤庸介, 丹羽洋介, 江藤仁樹, 2013: 第40回環境賞 環境大臣賞・優秀賞 定期航空路線を利用した温室効果ガスのグローバル観測. *季刊 環境研究*, **172**, 4-13.
- 4* Ishidoya, S., K. Tsuboi, H. Matsueda, S. Murayama, S. Taguchi, Y. Sawa, Y. Niwa, K. Saito, K. Tsuji, Y. Baba, S. Takatsuji, K. Dehara and H. Fujiwara, 2014: New atmospheric O₂/N₂ ratio measurements over the western North Pacific using a cargo aircraft C-130H. *SOLA*, **10**, 23-28.
- 5* Kondo, H., S. Murayama, Y. Sawa, K. Ishijima, H. Matsueda, A. Wada, H. Sugawara, S. Onogi, 2014: Vertical Diffusion Coefficient under Stable Conditions Estimated from Variations in the Near-Surface Radon Concentration. *Journal of the Meteorological Society of Japan*, **92**, 95-106.
- 6* Niwa, Y., K. Tsuboi, H. Matsueda, Y. Sawa, T. Machida, M. Nakamura, T. Kawasato, K. Saito, S. Takatsuji, K. Tsuji, H. Nishi, K. Dehara, Y. Baba, D. Kuboike, S. Iwatsubo, H. Ohmori and Y. Hanamiya, 2014: Seasonal Variations of CO₂, CH₄, N₂O and CO in the Mid-Troposphere over the Western North Pacific Observed Using a C-130H Cargo Aircraft. *気象集誌*, **92**, 55-70.
- 7* Basu, S., M. Krol, A. Butz, C. Clerbaux, Y. Sawa, T. Machida, H. Matsueda, C. Frankenberg, O. P. Hasekamp, and I. Aben, 2014: The seasonal variation of the CO₂ flux over Tropical Asia estimated from GOSAT, CONTRAIL, and IASI. *Geophysical Research Letters*, **41**, 1809-1815, doi:10.1002/2013GL059105.
- 三上正男 1 五十嵐康人, 財前祐二, 足立光司, 梶野瑞王, 三上正男, 2013: 福島事故後のつくばにおける降下量、大気中放射能濃度の推移. *Proceedings of the 14th Workshop on Environmental Radioactivity, KEK Proceedings, 2013-7 November 2013*, 35-39.
- 2* K. Osada, S. Ura, M. Kagawa, M. Mikami, T. Y. Tanaka, S. Matoba, K. Aoki, M. Shinoda, Y. Kurosaki, M. Hayashi, A. Shimizu, and M. Uematsu, 2014: Wet and dry deposition of mineral dust particles in Japan. *Atmospheric Chemistry and Physics*, **14**(2), 1107-1121.
- 3* Kang, J-Y., T. Y. Tanaka and M. Mikami, 2014: Effect of dead leaves on early spring dust emission in East Asia. *Atmospheric Environment*, **86**, 35-46, doi:http://dx.doi.org/10.1016/j.atmosenv.2013.12.007
- 水田 亮 1* Kusunoki, S. and R. Mizuta, 2013: Changes in precipitation intensity over East Asia during the 20th and 21st centuries simulated by a global atmospheric model with a 60km grid size. *Journal of Geophysical Research: Atmospheres*, **118**, 11,007-11,016, doi: 10.1002/jgrd.50877.
- 2* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.

- 村上正隆 1* Orikasa, N., M. Murakami, A. Heymsfield, 2013: Ice crystal Concentration in midlatitude cirrus clouds: In situ measurements with the balloonborne HYVIS. *J. Meteor. Soc. Japan.*, **91**, 143-161, doi:10.2151/jmsj.2013-204.
- 2* Tajiri, T., K. Yamashita, M. Murakami*, N. Orikasa, A. Saito, K. Kusunoki, and L. Lilie, 2013: A novel adiabatic-expansion-type cloud simulation chamber. *J. Meteor. Soc. Japan.*, **91**, 687-704.
- 3* Sakai, T., T. Nagai, N. Orikasa, Y. Zaizen, K. Yamashita, Y. Mano and M. Murakami, 2014: Aerosol characterization by dual-wavelength polarization lidar measurements over Kochi, Japan during the warm seasons of 2008 to 2010. *J. Meteor. Soc. Japan.*, **91**, 789-800.
- 4* Xue, L., A. Hashimoto, M. Murakami, R. Rasmussen, S. A. Tessendorf, D. Breed, B. Lawrence, S. Parkinson, P. Holbrook and D. Blestrud, 2013: Implementation of a Silver Iodide cloud seeding parameterization in WRF. Part I: Model description and Idealized 2D sensitivity tests. *J. Appl. Meteor. Climatol.*, **52**, 1433-1457.
- 5* Murakami, M., N. Orikasa, A. Saito and K. Yamashita, 2013: CCN Ability of Atmospheric Aerosols and Microphysical Structures of Shallow Warm Clouds in Western Japan. *Nucleation and Atmospheric Aerosols, AIP/Conference Proceeding 1527*, 817-819.
- 6 Yamashita, K., T. Tajiri and M. Murakami, 2013: CCN and IN parameter of Arizona Test Dust derived from laboratory experiments to simulate ice crystal formation by condensation freezing. *Nucleation and Atmospheric Aerosols, AIP/Conference Proceeding 1527*, 918-921.
- 7 三隅良平, 下瀬健一, 岩崎杉紀, 大東忠保, 佐藤陽祐, 鶴沼昂, 大竹秀明, 古関俊也, 斎藤篤思, 橋本明弘, 山下克也, 田尻拓也, 竹見哲也, 藤吉康志, 村上正隆, 中井専人, 李根玉, 2013: 第16回国際雲・降水会議 (ICCP2012) の報告. *天気*, **60**, 177-185.
- 8 村上正隆, 2013: 第9回天気予報研究会の報告 【特別講演】降雪研究に関する最近の動向について. *天気*, **60**, 673-677.
- 9 村上正隆, 2014: 意図的気象改変—エアロゾルの雲・降水影響—. *低温科学* 第72巻「雲とエアロゾルをつなぐ観測とモデリング」, **72**, 297-310.
- 10 田尻拓也, 山下克也, 村上正隆, 2014: 広範なエアロゾル種の雲核・氷晶核能. *低温科学* 第72巻「雲とエアロゾルをつなぐ観測とモデリング」, **72**, 29-39.
- 11 山下克也, 村上正隆, 田尻拓也, 橋本明弘, 2014: ダスト粒子からの雲粒・氷晶発生を扱う詳細雲微物理ボックスモデルの開発. *低温科学* 第72巻「雲とエアロゾルをつなぐ観測とモデリング」, **72**, 79-86
- 村田昭彦 1* Murata, A., 2013: The role of a convective burst in the genesis of typhoon Hagupit (2008). *J. Geophys. Res. (Atmospheres)*, **118**, 3520-3533.
- 2* Murata, A., H. Sasaki, M. Hanafusa, K. Kurihara, 2013: Estimation of urban heat island intensity using biases in surface air temperature simulated by a nonhydrostatic regional climate model. *Theor. Appl. Climatol.* **112**, 351-361, doi:10.1007/s00704-012-0739-2.
- 毛利英明 1* Mouri, H., 2013: Log-normal distribution from a process that is not multiplicative but is additive. *Physical Review E*, **88**, 042124, doi: 10.1103/PhysRevE.88.042124.
- 2 気象測器検定試験センター, 気象研究所物理気象研究部, 2013: 雨量計周囲の気流に架台が及ぼす影響についての調査報告. *測候時報*, **80**, 1-5
- 藪 将吉 1* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 山内 洋 1* Adachi, A., T. Kobayashi, H. Yamauchi and S. Onogi, 2013: Detection of potentially hazardous convective clouds with a dual-polarized C-band radar. *Atmos. Meas. Tech.*, **6**, 2741-2760, doi: 10.5194/amt-6-2741-2013.
- 2 Adachi, A., T. Kobayashi, H. Yamauchi and S. Onogi, 2013: Radar calibration using polarimetric observations with rain attenuation correction. *Extended abstract of the 36th Conference on Radar Meteorology*, 270.
- 3 新堀敏基, 高木朗充, 山内洋, 佐藤英一, 福井敬一, 菅井明, 林勇太, 林洋介, 長谷川

- 嘉彦, 真木雅之, 2014: 気象レーダーで観測された 2013 年 8 月 18 日桜島噴火に伴う噴煙エコー. *火山噴火予知連絡会会報*, **116**, 253-259.
- 山田芳則 1* Yamada, Y., 2013: Characteristics of Wind Fields Derived from the Multiple-Doppler Synthesis and Continuity Adjustment Technique (MUSCAT). *J. Meteor. Soc. Japan*, **91**, 559-583, doi:http://dx.doi.org/10.2151/jmsj.2013-501.
- 2* Ohtake, H., K. Shimose, J. G. da S. Fonseca, T. Takashima, T. Oozeki and Y. Yamada, 2013: Accuracy of the solar irradiance forecasts of the Japan Meteorological Agency mesoscale model for the Kanto region. *Japan Solar Energy*, **98(B)**, 138-152.
- 3* 山田芳則, 大竹秀明, 下瀬健一, 大関崇, 2013: 気象庁の現業数値予報モデルの概要とメソモデルによって予測された日射量の誤差特性. *太陽エネルギー学会誌*, **39(6)**, 37-41.
- 4* Fujiyoshi, Y., K. Osumi, M. Ohi and Y. Yamada, 2013: Sea ice identification and derivation of its velocity field by X-band Doppler radar. *J. Atmos. Oceanic Technol.*, **30**, 1240-1249.
- 5 山田芳則, 大竹秀明, 下瀬健一, 大関崇, 2013: 気象庁の現業数値予報モデルの概要とメソモデルによって予測された日射量の誤差特性. *太陽エネルギー学会誌*, **Vol. 39, No. 6**, 37-41.
- 山中吾郎 1 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2014: 海洋モデルの過去再現実験で見られた熱帯太平洋の十年規模変動. *研究会「長期予報と大気大循環」拡張要旨*, **5**.
- 2 坂本圭, 山中吾郎, 辻野博之, 中野英之, 平原幹俊, 2013: 日本近海 2km モデルの開発 - 次世代日本沿岸監視予測システムに向けて. *測候時報第 80 巻特別号*, S99-S109.
- 3* Sakamoto, K., H. Tsujino, M. Hirabara, H. Nakano and G. Yamanaka, 2013: A practical scheme to introduce explicit tidal forcing into an OGCM. *Ocean Sci.*, **9**, 1089-1108.
- 山本 哲 1 山本哲, 2013: 温室効果気体はどのようにして大気を暖めているのか—「高速道路と温室効果」を読んで—. *天気*, **60(5)**, 385-389.
- 2 山本哲, 2013: 「あなたもできる 100 問解いて天気予報」, 「空を見上げたくなる本」山本光義 著. *天気*, **60(10)**, 835.
- 山本哲也 1* 高木朗充, 新堀敏基, 山本哲也, 白土正明, 平祐太郎, 加藤幸司, 福井敬一, 2013: 物理観測による新燃岳の噴火規模の即時的な推定の試み. *験震時報*, **77**, 111-118.
- 2* 鬼澤真也, 新堀敏基, 福井敬一, 安藤忍, 弘瀬冬樹, 木村一洋, 吉田康宏, 岩切一宏, 吉田知央, 山本哲也, 吉川澄夫, 2013: 2011 年霧島山新燃岳噴火における降灰観測と予測. *験震時報*, **77**, 215-222.
- 行本誠史 1* Adachi, Y., S. Yukimoto, M. Deushi, A. Obata, H. Nakano, T. Y. Tanaka, M. Hosaka, T. Sakami, H. Yoshimura, M. Hirabara, E. Shindo, H. Tsujino, R. Mizuta, S. Yabu, T. Koshiro, T. Ose, and A. Kitoh, 2013: Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). *Pap. Meteor. Geophys.*, **64**, 1-19, doi:10.2467/mripapers.64.1.
- 弓本桂也 1* Yumimoto, K. and T. Takemura, 2013: The SPRINTARS/4D-Var Data Assimilation System: Development and Inversion Experiments Based on the Observing System Simulation Experiment Framework, *Geosci. Model Dev.*, **6**, 2005-2022.
- 2* Yumimoto, K., 2013: Impacts of geostationary satellite measurements on CO forecasting: An observing system simulation experiment with GEOS-Chem/LETKF data assimilation system. *Atmos. Environ.*, **74**, 123-133.
- 3* 鵜野伊津志, 弓本桂也, 大原利眞, 黒川純一, 2013: タグ付き CO 輸送モデルを用いたアジア行きのソース・リセプター解析. *大気環境学会誌*, **48**, 123-132.
- 4* 鵜野伊津志, 弓本桂也, 大原利眞, 黒川純一, 2013: タグ付き輸送モデルによるアジア行きの CO 濃度と発生源寄与の長期解析. *大気環境学会誌*, **48**, 133-139.
- 5* 鵜野伊津志, 板橋秀一, 弓本桂也, 入江仁志, 黒川純一, 大原利眞, 2013: 東アジア域の NO_x 発生量の経年変化と窒素化合物の挙動のモデル解析. *大気環境学会誌*, **48**, 223-233.
- 6* 鵜野伊津志, 弓本桂也, 原由香里, 板橋秀一, 金谷有剛, 杉本伸夫, 大原利眞, 2013: 何故 2013 年冬季の中国で PM_{2.5} が高濃度になったか?. *大気環境学会誌*, **48**,

- 274-280.
- 吉田 智 1 吉田智, 牛尾知雄, 河崎善一郎, 2013: 津波検出用 Ku 帯広帯域レーダの開発. *大気電気学会誌*, **7(2)**, 86-87.
- 2 吉田智, T. Wu, 牛尾知雄, 河崎善一郎, 高柳裕次, 2013: フェーズドアレイレーダで観測された積乱雲の発達過程と電荷領域の関係. *大気電気学会誌*, **7(2)**, 88-89.
- 3 牛尾知雄, 菊池博史, W. Ting, 嶋村重治, 円尾晃一, 平野裕基, 商進, 吉田智, 金寛, 水谷文彦, 後藤秀人, 和田将一, 河村誠治, 花土弘, 佐藤晋介, 井口俊夫, 2013: フェーズドアレイおよび協調制御型レーダの開発について. *大気電気学会誌*, **7(2)**, 90.
- 4 森本健志, 菊池博史, 吉田智, 牛尾知雄, 河崎善一郎, 佐藤光輝, 山崎敦, 鈴木睦, 2013: JEM-GLIMS による ISS からの VHF 帯電磁波観測の初期結果報告. *大気電気学会誌*, **7(2)**, 91-92.
- 5 Ting, W., 高柳裕次, 吉田智, 牛尾知雄, 河崎善一郎, 2013: Large bipolar pulses produced by lightning discharges in winter. *大気電気学会誌*, **7(2)**, 93-94.
- 6 嶋村重治, 吉川栄一, 吉田智, 牛尾知雄, 河崎善一郎, 2013: ベイズ理論に基づいた気象用 Ku 帯広帯域レーダネットワークにおける降雨減衰補正手法の検討, *大気電気学会誌*, **7(2)**, 95.
- 7 河内駿迪, 吉田智, Ting Wu, 牛尾知雄, 楠研一, 2014: 雷放電に伴う Preliminary breakdown の発生高度と積乱雲内電荷構造. *Journal of Atmospheric Electricity*, **34(1)**, 55-68.
- 8* Wu, T., S. Yoshida, T. Ushio, Z. Kawasaki, Y. Takayanagi, D. Wang, 2014: Large bipolar lightning discharge events in winter thunderstorms in Japan. *J. Geophys. Res. Atmos.*, **119**, 555-566.
- 和田章義 1 Wada, A., 2013: The impact of oceanic initial conditions on the simulations of Typhoon Ma-on in 2011. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modell.*, **43**, 9.05-9.06.
- 2 Wada, A., 2013: Sensitivity of horizontal resolution and sea spray to the simulations of Typhoon Roke in 2011. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modell.*, **43**, 9.07-9.08.
- 3 Wada, A., 2013: Lagged simulations of the oceanic initial condition for Typhoon Choi-wan (2009). *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modell.*, **43**, 9.09-9.10.
- 4 Wada, A., 2013: Impacts of surface roughness lengths on axisymmetrically mean structure of Typhoon Fanapi (2010). *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modell.*, **43**, 9.11-9.12.
- 5 Wada, A., 2013: Effect of Talas-induced sea-surface cooling on the generation of a subsequent typhoon. *CAS/JSC WGNE Res. Activ. Atmos. Oceanic Modell.*, **43**, 9.13-9.14.
- 6* Wada, A., M. F. Cronin, A. J. Sutton, Y. Kawai and M. Ishii, 2013: Numerical simulations of oceanic pCO₂ variations and interactions between Typhoon Choi-wan (0914) and the ocean. *Journal of Geophysical Research - Oceans*, **118**, 2667-2684.
- 7* Wada, A., N. Usui and M. Kunii, 2013: Interactions between Typhoon Choi-wan (2009) and the Kuroshio Extension System. *Advances in Meteorology*, **2013**, 859810.
- 8* Kanada, S., A. Wada, M. Sugi, 2013: Future changes in structures of extremely intense tropical cyclones using a 2-km mesh nonhydrostatic model. *Journal of Climate*, **26**, 9986-10005.