CEReS

Newsletter No. 129

Center for Environmental Remote Sensing, Chiba University, Japan

千葉大学環境リモートセンシング研究センター　ニュースレター 2016 年 8 月
発行：環境リモートセンシング研究センター
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■■■ CEReS ニュースリリースにて研究報告 ■■■

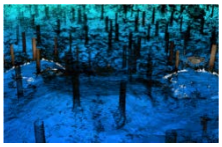
～ シリーズ CEReS の研究活動便り（各研究室から）～

2016 年 1 月より毎月のニュースレターとともに、教員によるニュースリリースを発行し、最近の研究成果や、現在取り組んでいる研究活動の進捗状況などを積極的に発信しています。現在までに発行した内容をご紹介します。（クリックすると PDF にてご覧いただけます。）

カメラで撮影するだけで大気汚染物質の量が測定可能に！

～空間情報とスペクトル情報を同時に記録できる新しいカメラの活用～

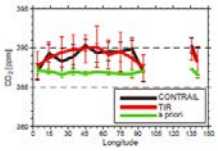
（久世宏明教授）



森林内の微地形が低コストで計測可能に！

～地上レーザー計測データからの地盤面抽出～

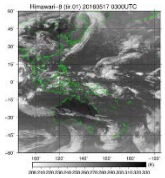
（梶原康司講師）



日本の温室効果ガス観測技術衛星「いぶき」による上空の二酸化炭素濃度の観測

～人工衛星で上空の二酸化炭素濃度をどれくらい正確に測れるか？～

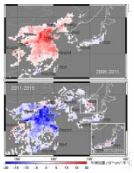
（齋藤尚子助教研究グループ）



「ひまわり８号」精密幾何補正済グリッドデータ公開

～「ひまわり８号」のすごさをあなたも実際のデータ解析で体験できます～

（樋口篤志准教授・竹中栄晶客員准教授・豊嶋紘一特任研究員）



東アジアの大気中 NO2 汚染レベル、５年前のレベルに回復していた！

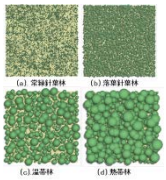
～主に中国で回復、日本・韓国ではやや悪化の傾向～

（入江研究室）

全球植生バイオマスの把握を目指して

～GCOM-C（地球環境変動観測ミッションの衛星）、2018 年打ち上げ予定～

（本多嘉明准教授）



衛星観測から森林の林分構造が再現可能に！

～立木密度と樹高に基づいた林分構造モデルの開発～

（楊偉特任助教）

■■ International ties of CEReS — What's up, graduates? ■■

～ シリーズ　CEReS 修了の留学生 世界で活躍！　（バングラディッシュより）～

今回は、バングラディッシュご出身の Tarulata Shapla さんです。Sher-e-Bangla Agricultural University（Dhaka）に在籍、研究活動をされていた Shapla さんは 2012 年の 9 月に来日、10 月に開催された第 18 回 CEReS 国際シンポジウム（副題：Asian Network for Enviromental Monitoring and Related Studies）で研究発表されました。その後、翌年春に融合科学研究科情報科学専攻知能情報コースに入学し、今年 3 月に博士（学術）の学位を取得されました。現在、Sher-e-Bangla Agricultural University に戻り、CEReS で学んだ新しい手法での研究に取り組み、祖国に貢献できるよう日々励んでおられます。

I am Tarulata Shapla, Associate Professor in the department of Agroforestry and Environmental Science in Sher-e-Bangla Agricultural University Dhaka, Bangladesh. On March 25th of 2016, I completed my PhD program under the supervision of Prof. Dr. Hiroaki Kuze in the field of remote sensing in Chiba University. The title of my thesis is "Change assessment and phenological analysis of agroforestry and agricultural land use in Bangladesh based on satellite remote sensing". My research was to analyze the rice producing areas utilizing Landsat and MODIS satellite data.

I came to Japan as a visiting researcher at CEReS in September 2012. During these three months here, I became familiar with a lot of modern technology at CEReS, especially the instruments for atmospheric monitoring such as differential optical absorption spectroscopy (DOAS), and various imaging and spectroscopic devices, which form a good basis for various remote sensing and environmental studies. At CEReS, also I had a good experience attending laboratory seminars and classes, getting chances for presenting some of my recent achievements regarding the agricultural application of remote sensing methodologies. Here at CEReS, I observed different research activities through communications with researchers, which lead to sharing valuable information that is required for a visiting researcher. I still feel proud of being a student in the Japanese language course of the University International Center, an outstanding asset obtainable by staying in Japan. With the background knowledge in Agriculture, Agroforestry and Environment, I was very enthusiastic about building my career with Remote Sensing by keeping pace with the advancement of technologies, especially those used for land use and land cover change detection using different resolution of satellite images.

In 1997, I completed my B.Sc. in Agriculture (Honors degree) from Bangladesh Agricultural University, Mymensingh. This University bring back memories of my father; Prof. Dr. M. Abdul Haque (Texas A&M), as once he was the Vice-chancellor of this university. Subsequently, I achieved Master of Science (M.S.) in Agroforestry & Environment from Bangabandhu Sheikh Mujibur

Rahman Agricultural University (former name was IPSA, Institute of Post Graduate Studies in Agriculture, funded by JICA), Gazipur, Bangladesh in Autumn 2001. Upon completion of my M.S. therein, I worked in a government project (SAIP, Smallholder Agricultural Improvement Project, funded by IFAD in Department of Agricultural Extension, Khamarbari, Dhaka) as a statistical officer between May 2001 and October 2002. In October 2002, I was appointed to a lecturer in the Department of Agroforestry and Environmental Science at Sher-e-Bangla Agricultural University and in September 2006, I was promoted as an Assistant Professor. In December 2007, I was appointed to the chair of the department, till July 2011. My responsibility includes teaching, giving guidance and research supervision to students, counseling, preparing the syllabus, and grading entire courses by proctoring examinations. My personal research activities consist of writing professional journal papers and attending both national and international seminars and meetings. As a part of it, during October 24th, 2012, I had an opportunity to give a presentation in the 18th CEReS international symposium at the Nishi Chiba campus, Chiba University. As a consequence, during my stay in Japan, I visited Fukushima, Kyoto, Korea (Busan), Taiwan (Tainan) for RSSJ and ISRS symposiums as well as two of my papers have been published in an open journal of which the first paper is based on Landsat data; http://file.scirp.org/pdf/ARS_2015082410375843.pdf and the second one on MODIS data;
http://www.scirp.org/journal/PaperInformation.aspx?PaperID=61975.
My research interest is interaction between atmosphere and land with remote sensing and GIS. After completing my doctoral program, I went back to my university in April 2016 and was promoted to an Associate Professor that was effective from September 2014.
This doctoral program in the Information Sciences Division of the Graduate School for Advanced Integrated Science, Chiba University helped me to create a solid scientific foundation in remote sensing field. Though, Bangladesh has limited scope in the field of remote sensing, I had an amazing opportunity with the guidance of Prof. Kuze Sensei that was truly an eye-opening experience to complete my last degree in an advanced technology based country, Japan. Moreover safety in Japan, friendly environment, culture, natural beauty etc. gave me strong motivation for improving the future of humanity; I wish to contribute more to Bangladeshi people by performing a key role between Japanese and Bangladeshi societies and always expect promising and successful future for everyone in CEReS, Chiba university as well as Japan, the land of the flowers and the rising sun.

＊CEReS よりお知らせ

平成 28 年 11 月 20～24 日に千葉大学けやき会館にて、第 7 回インドネシア・日本共同学術シンポジウム（IJJSS2016）が開催されます。この取組は平成 16 年から始まり、当大学とインドネシアの大学との共同持ち回りで隔年開催しています。この期間中に第 24 回 CEReS 国際シンポジウムおよび第 4 回小型衛星シンポジウムを併催します。詳細は、IJJSS2016 特設サイト（http://www2.cr.chiba-u.jp/ijjss/）にて随時更新しますので、ご参照ください。また、CEReS 共同利用研究者の方の発表も予定しております。