Publications

Satellite Prediction of Coral Bleaching: William Skirving (CISESS Consortium Lead on the Coral Reef Watch project), has an article in press in *Remote Sensing of the Environment* (September 2020 issue). The article identifies other biological and geophysical parameters derived from remote sensing that explain variance in coral bleaching. This includes improvements in sea surface temperature product resolution and past datasets, incorporating the influence of ultraviolet irradiance on coral bleaching, and identifying locally-varying thermal bleaching thresholds. One method they discuss is the “Light Stress Damage” bleaching prediction shown below:

![Light Stress Damage bleaching prediction](image)

More empirical data is necessary for some aspects of bleaching prediction development, though the potential exists for gains in predictive skill to be achieved through the implementation of current physiological and remote sensing knowledge.


*(POC: Jacquie De La Cour, jacqueline.shapo@noaa.gov, Funding: NOS)*
Workshops, Conferences, and Meetings

**Snowfall Detection in Lithuanian:** H. Meng and R. Ferraro were co-authors on a conference abstract that was published on May 21st. The abstract is about the application of the random forest algorithm to detect snowfall from JPSS ATMS measurements. It is included in the *Conference Proceedings on Climate Change–Lithuania*. It covers the work Visiting Scientist Justinas Kilpys did last year with SCSB and CISESS. Two CISESS scientist are also coauthors: Yalei You and Jun Dong. The article is in Lithuanian.


(POC: H. Meng, huan.meng@noaa.gov, Funding: JSTAR)

**Meetings**

**CGMS-48:** R. Ferraro participated at the (virtual) 48th meeting of the Coordination Group for Meteorological Satellites (CGMS), which this year, has been broken into two segments: Working groups met during the week of May 25 and the plenary session will be in August. Ralph represents the International Precipitation Working Group (IPWG), serving as the rapporteur to CGMS. He presented an annual summary of IPWG and updated the group on action items assigned to IPWG. Because the 10th workshop of IPWG was postponed (now rescheduled to June 2021, Ft. Collins, CO), IPWG will be holding a series of mini-workshops focused on the grand challenges faced by the international precipitation remote sensing community. The first one will be held on June 23 and will focus on the status of the precipitation constellation. More details on IPWG can be found at [http://www.isac.cnr.it/~ipwg/](http://www.isac.cnr.it/~ipwg/).

(POC: Ralph Ferraro, Ralph.R.Ferraro@noaa.gov, Funding: PDRA)