BADAN METEOROLOGI KLIMATOLOGI DAN GEOFISIKA
PUSAT PENDIDIKAN DAN PELATIHAN
Jl. Angkasa I No. 2, Kemayoran, Jakarta Pusat 10720
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Nomor : KP.02.00/048/KDL/VIII/2020 Jakarta,19 Agustus 2020
Sifat : SEGERA
Lampiran : 1 (satu) berkas
Hal : Tawaran mengikuti *the Online NASA Training Course on Remote Sensing of Coastal Ecosystem*s pada 25 Agustus, 1 dan 8 September 2020

Yth. 1. Para Kepala Pusat di lingkungan Kedeputian Meteorologi
2. Para Kepala Pusat di lingkungan Kedeputian Klimatologi
3. Kepala Pusat Penelitian dan Pengembangan
4. Ketua STMKG
5. Kepala Balai Besar MKG Wilayah I - V
Di-
Tempat

Berdasarkan informasi melalui email dari *National Aeronautics and Space Administration* (NASA) melalui *World Meteorological Organization* (WMO) pada 12 Agustus 2020,dengan hormat bersama ini kami sampaikan bahwa NASA menawarkan the Online NASA Training Course on Remote Sensing of Coastal Ecosystems pada 25 Agustus, 1 dan 8 September 2020 secara daring/*online.* Pelatihan ditujukan bagi praktisi dan professional, manajer, mahasiswa dan peneliti yang bekerja dalam bidang lingkungan dan *remote sensing.*

Sehubungan dengan hal tersebut, dengan hormat kami mohon bantuannya untuk dapat menginformasikan kesempatan pelatihan ini kepada seluruh pegawai yang berada di unit kerja masing-masing, dengan **mempertimbangkan tugas pokok dan fungsinya**.

Peminat mendaftar secara langsung ke website NASA di https://go.nasa.gov/3iKxYGs. Tata cara pendaftaran, ketentuan pelatihan dan kualifikasi peserta dapat dilihat pada **Lampiran 1**.Informasi lebih lanjut terkait pelatihan daring ini silahkan menghubungi Rr. Yuliana Purwanti, M.Si (HP. 0813 1722 8283/ email apply.rtcbmkg@bmkg.go.id)

Demikian disampaikan. Atas perhatian dan kerjasamanya, kami ucapkan terima kasih.

Kepala Pusat Pendidikan dan Pelatihan,

Maman Sudarisman

Tembusan:
1. Kepala BMKG;
2. Sestama BMKG;
3. Kepala Biro Hukum dan Organisasi.

| | | |
|---|---|---|
| Lampiran | : | 1 |
| Nomor surat | : | KP.02.00/048/KDL/VIII/2020 |
| Tanggal | : | 19 Agustus 2020 |


## NASA TRAINING COURSE ON REMOTE SENSING OF COASTAL ECOSYSTEMS

Registration is open for an a new open, online webinar series: Remote Sensing of Coastal Ecosystems If you would like to join us or pass along to colleagues who will find it useful, please do so. Please see the training details and registration information below.

### Remote Sensing of Coastal Ecosystems

Coastal and marine ecosystems serve key roles for carbon storage, nutrients and materials cycling, as well as reservoirs of biodiversity. They also provide ecosystems services such as sustenance for millions of people, coastal protection against wave action, and recreational activities. Remote sensing of coastal and marine ecosystems is particularly challenging. Up to 90% of the signal received by the sensors in orbit comes from the atmosphere. Additionally, dissolved and suspended constituents in the water column attenuate most of the light received through absorption or scattering. When it comes to retrieving information about shallow water ecosystems, even in the clearest waters under the clearest skies, less than 10% of the signal originates from the water and its bottom surface. Users, particularly those with little remote sensing experience, stand to benefit from this training covering some of the difficulties associated with remote sensing of coastal ecosystems, particularly beaches and benthic communities such as coral reefs and seagrass.

**Relevant UN Sustainable Development Goals:**

- **Goal 14:** Conserve and sustainably use the oceans, seas and marine resources for sustainable development
- **Target 14.2:** By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans

**Course Dates**: August 25, September 1, and 8, 2020

**Times and Registration Information:**

English Session: 11:00-12:00 EDT (UTC-4): https://go.nasa.gov/3iKxYGs

**Learning Objectives:** By the end of this training, attendees will be able to:

- Identify the different water column components and how they affect the remote sensing signal of shallow-water ecosystems
- Outline existing satellite sensors used for ocean color and shallow-water ecosystem characterization
- Understand the interaction between water constituents, the electromagnetic spectrum, and the remote sensing signal
- Recognize the different processes used to remove the water column attenuation from the remotely-sensed signal to characterize benthic components
- Summarize techniques for characterizing shoreline beach environments with remotely-sensed data and field methods for beach profiling

**Audience:** Local, regional, state, federal, and non-governmental environmental managers, researchers, and students.

**Course Format:** Three, 1-hour parts

**Contact Point:**

**Brock Blevins**
Training Coordinator Science Systems and Applications, Inc. (SSAI)
NASA Applied Remote Sensing Training Program (ARSET)
Email : brock.blevins@nasa.gov