

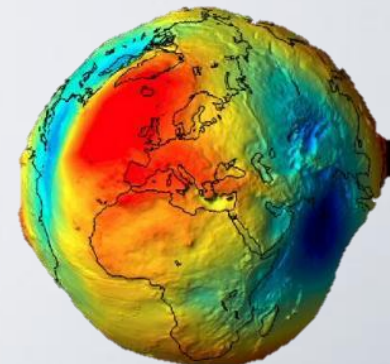


5TH High Level Forum on United Nations Global Geospatial Information Management.

**Implementing the SDG's: The role of geospatial
research and innovation.**

Mexico City, México. Nov 28-30 2017.

Manuel Suárez Lastra



Scaling up Geospatial Research and Innovation to meet the Needs for Sustainable Development Goals (SDG's)



**Earth Observation and
Geospatial Information
Management to monitor
SDG's**

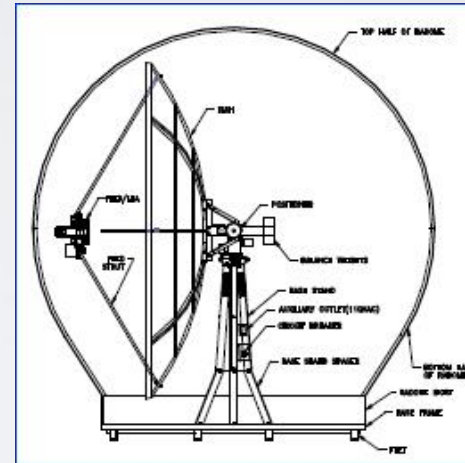


**National Laboratory for
Earth Observation**



Last Generation of meteorological satellite imagery

**Geonet
Cast**

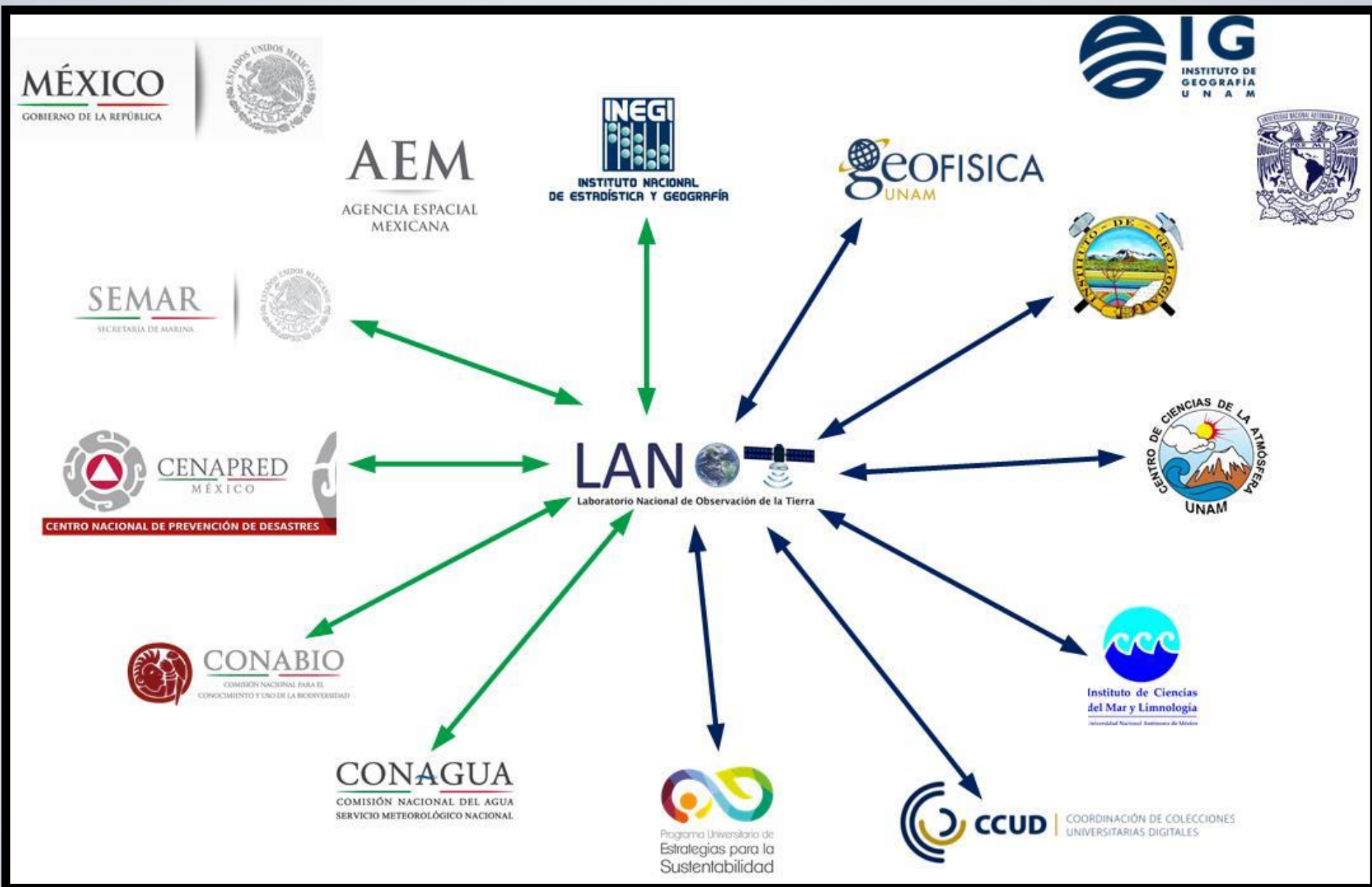


JPP

**Joint
Polar
Satellite
System**

**– Providing new technology / Sensitive data to
National Institutions.**

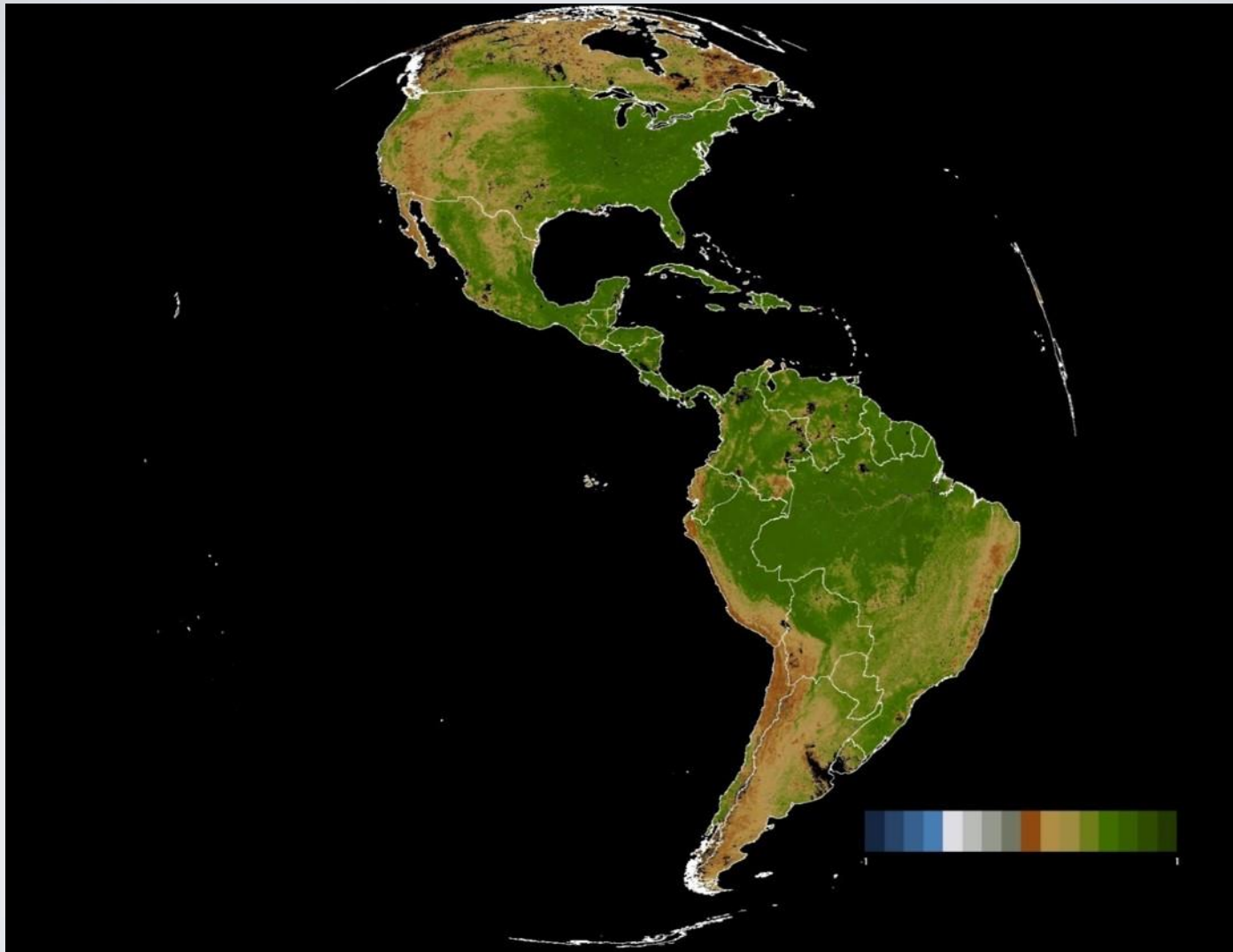
Associated and newcomers to LANOT

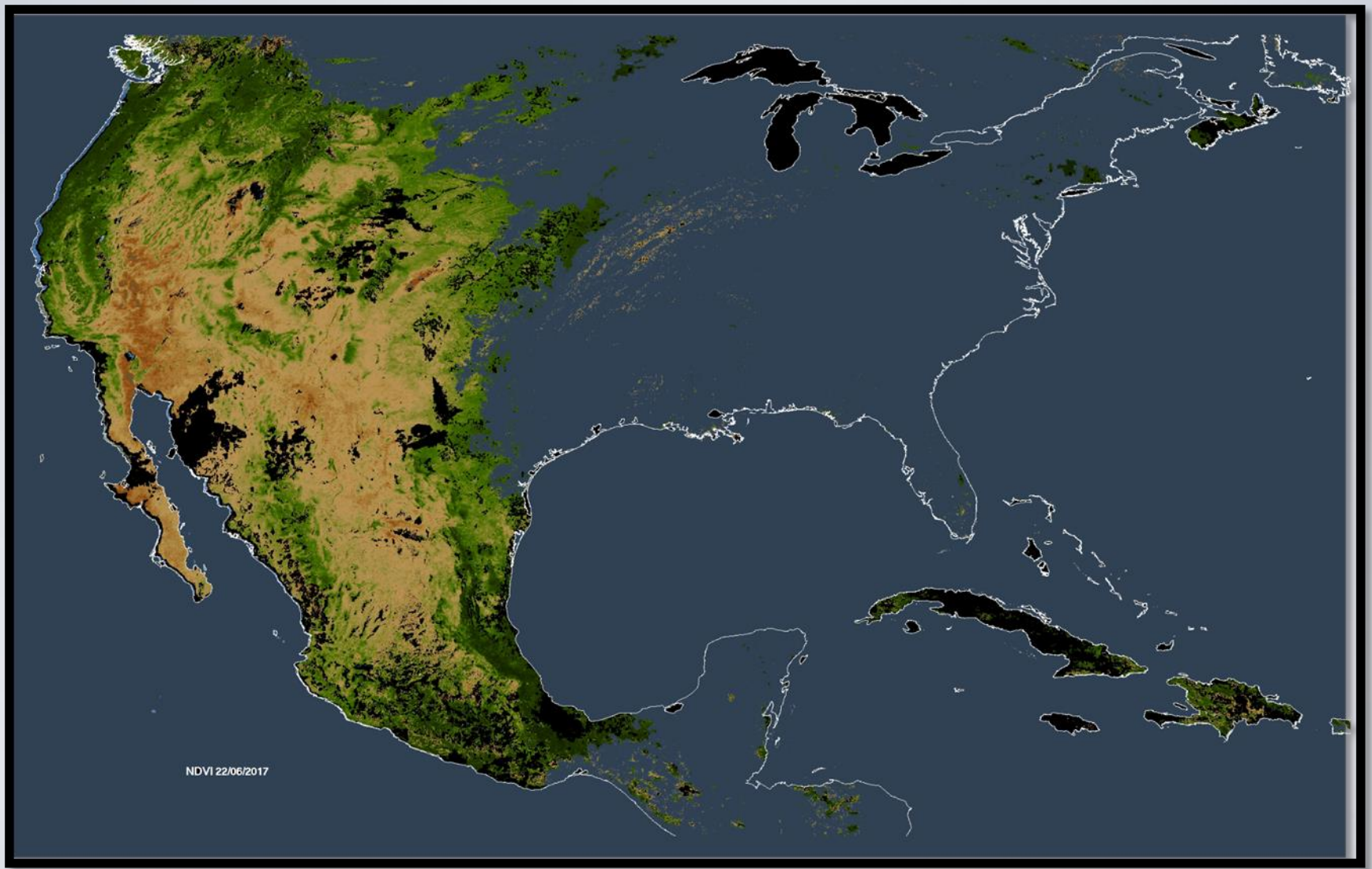


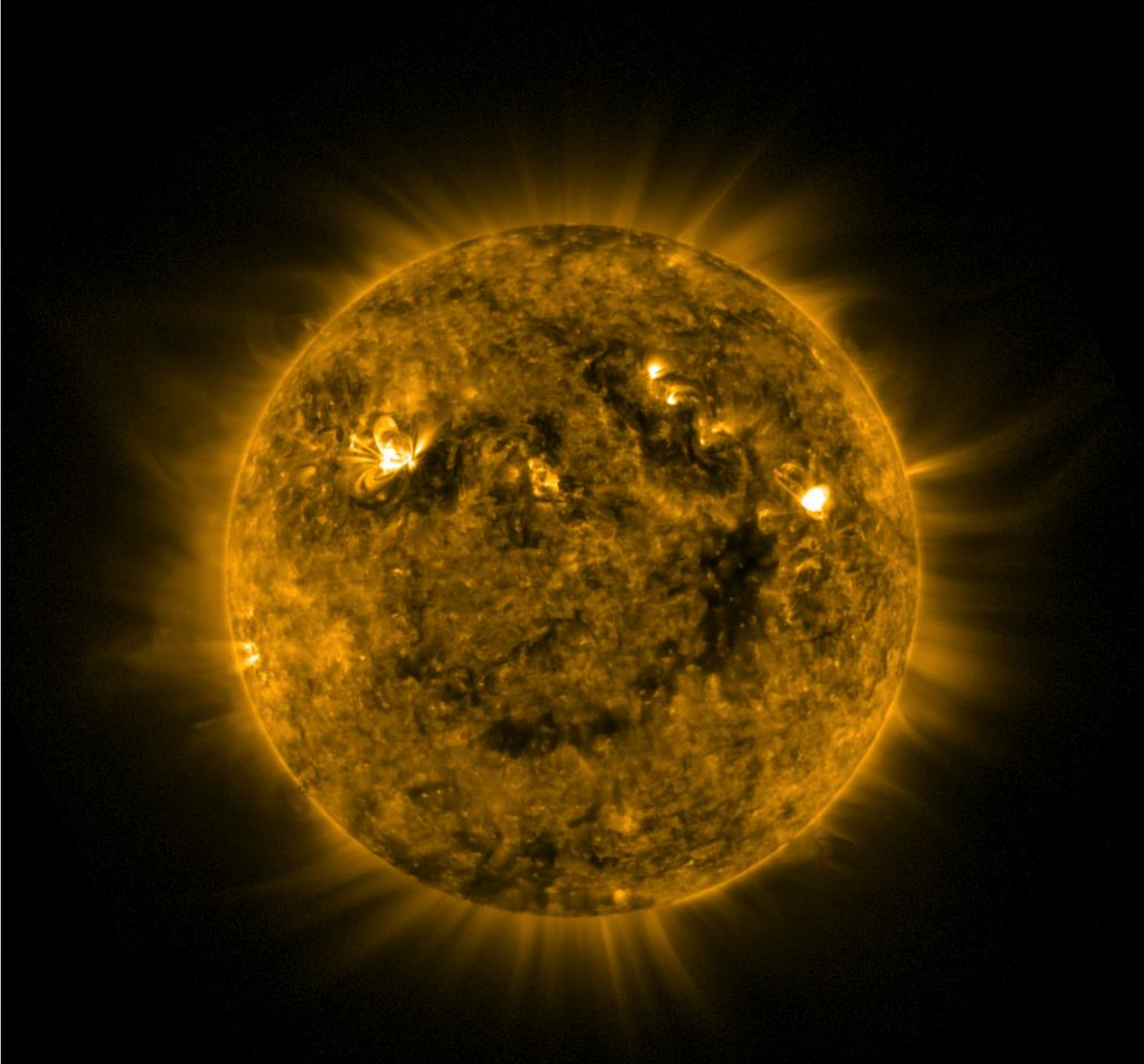
Assessment of vegetation changes



Assessment of vegetation changes



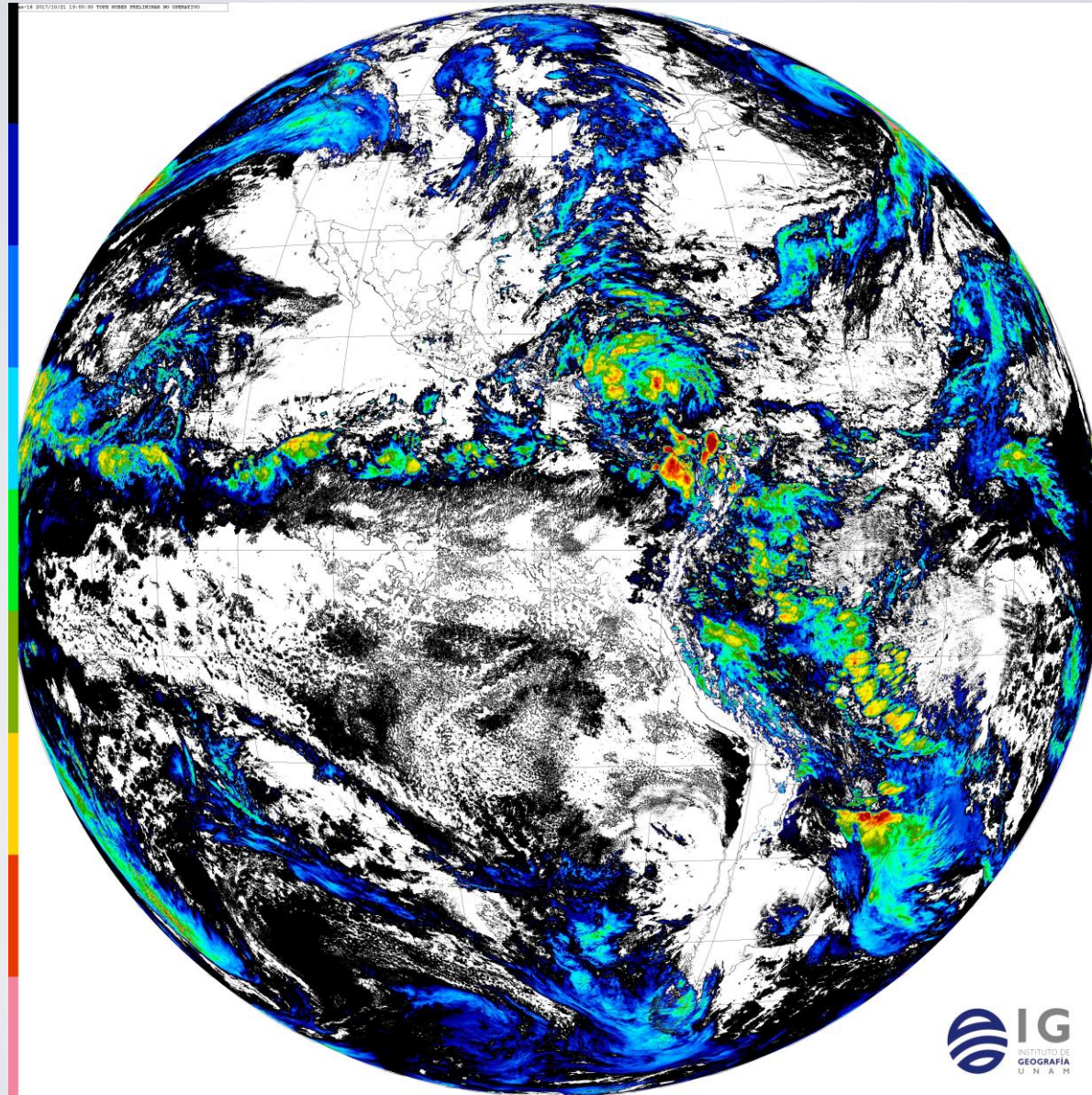




GOES-16 SUVI 171Å

This image shows the Sun in the 171 Å ultraviolet wavelength, captured by the GOES-16 satellite's Solar Ultraviolet Imager (SUVI). The Sun's surface is covered in a complex pattern of magnetic field lines and plasma. Several bright, active regions are visible, including a large, complex structure on the left side and several smaller, bright spots on the right. The Sun is set against a black background, with a bright, diffuse glow around its edges.

Atmosphere and oceans monitoring to establish their relationship, and their impact into society.



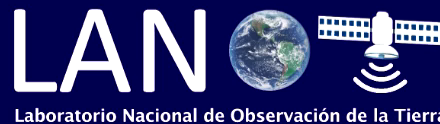
Video tropical storm Nat



Tormenta tropical Nate 06/10/2017

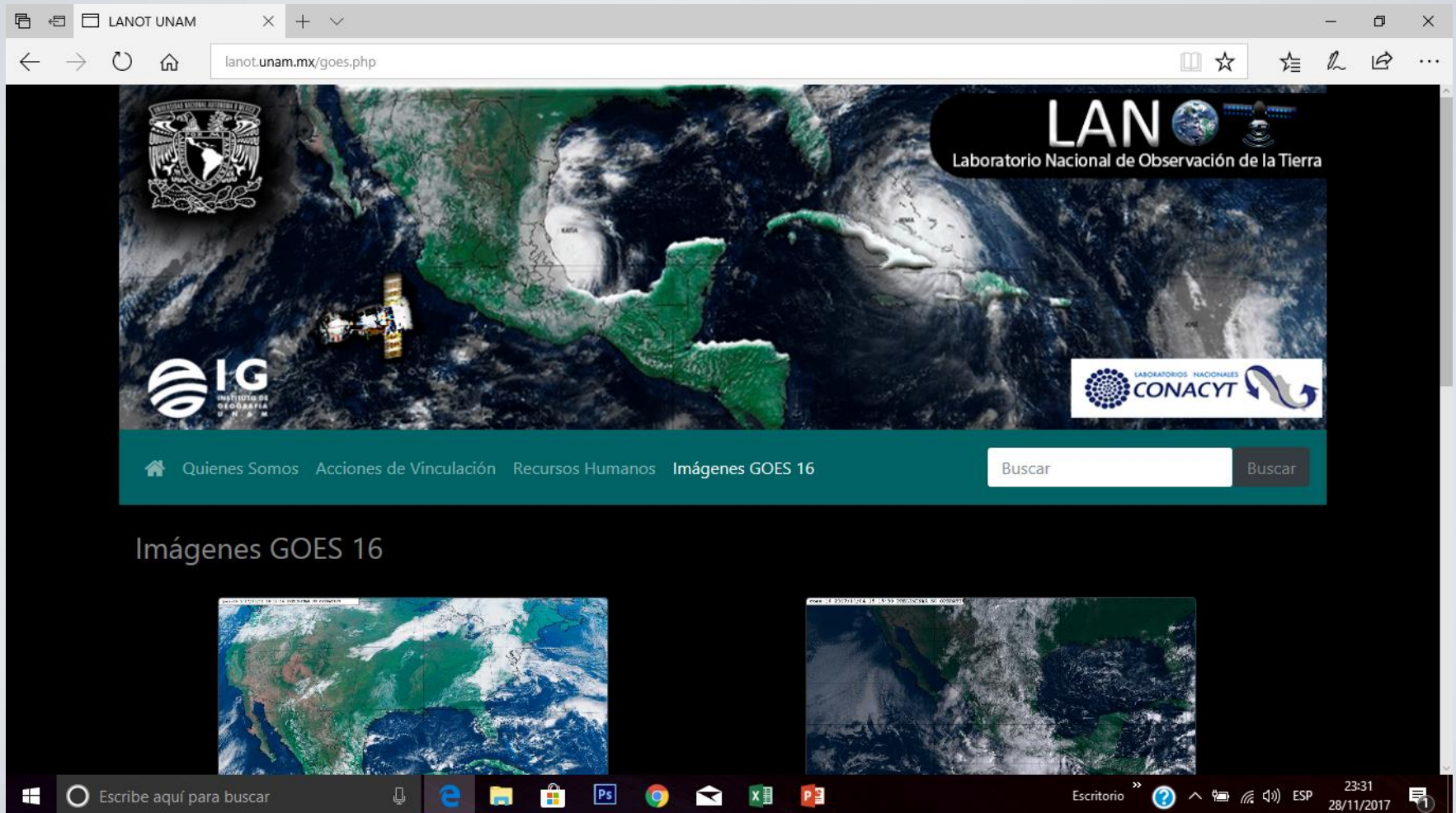
Goes 16 (ABI)
Producto de Tope de Nubes
(Preliminar no operativo)

LANOT/ IGg/ UNAM

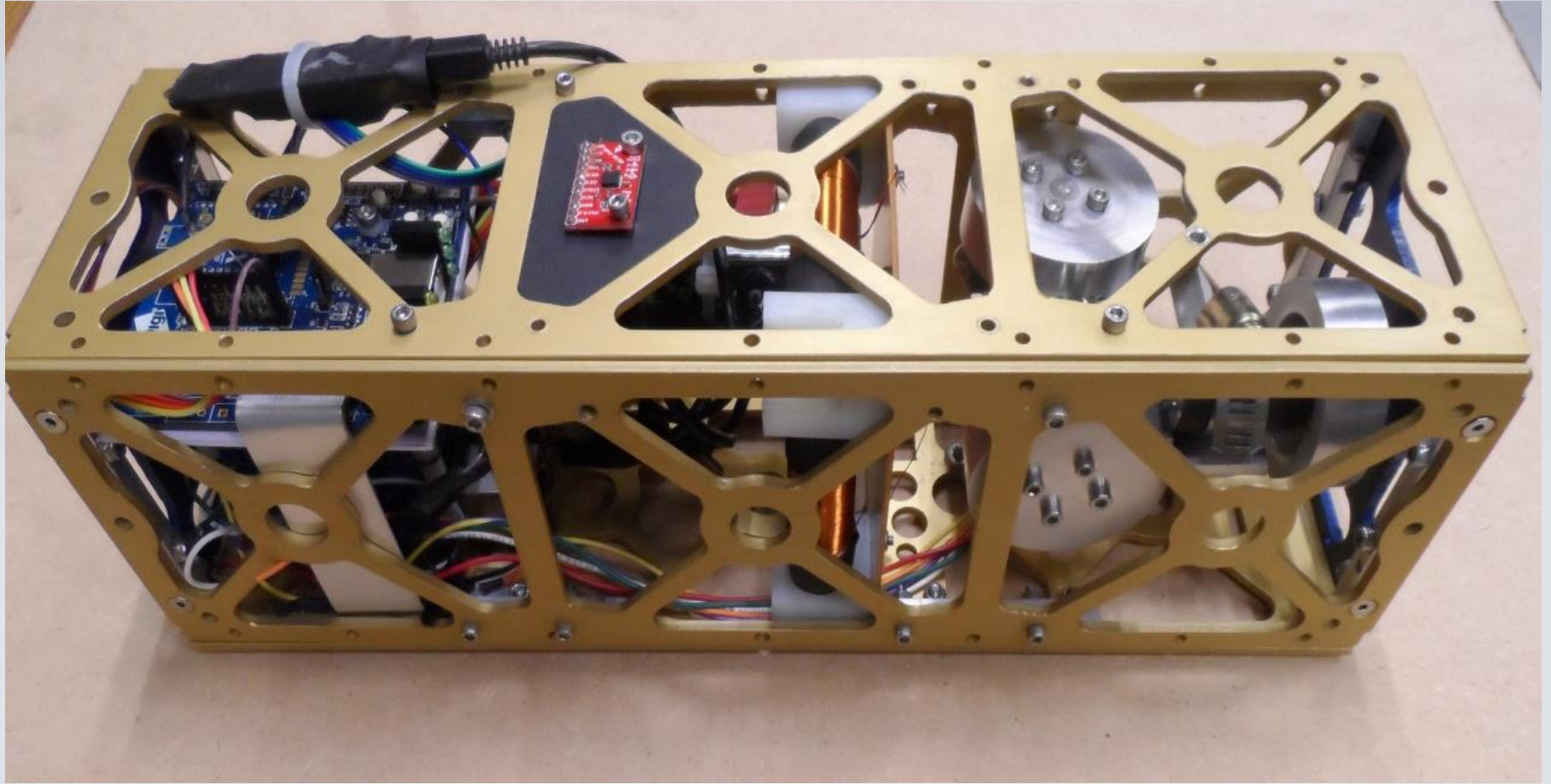


Web site LANOT: <http://lanot.unam.mx>
and

ftp connection with associated institutions: 10,000 visits
per month.



Nanosat technology development



Nanosat technology development

EOS

Model ACP Configuration QB50P1 3D View

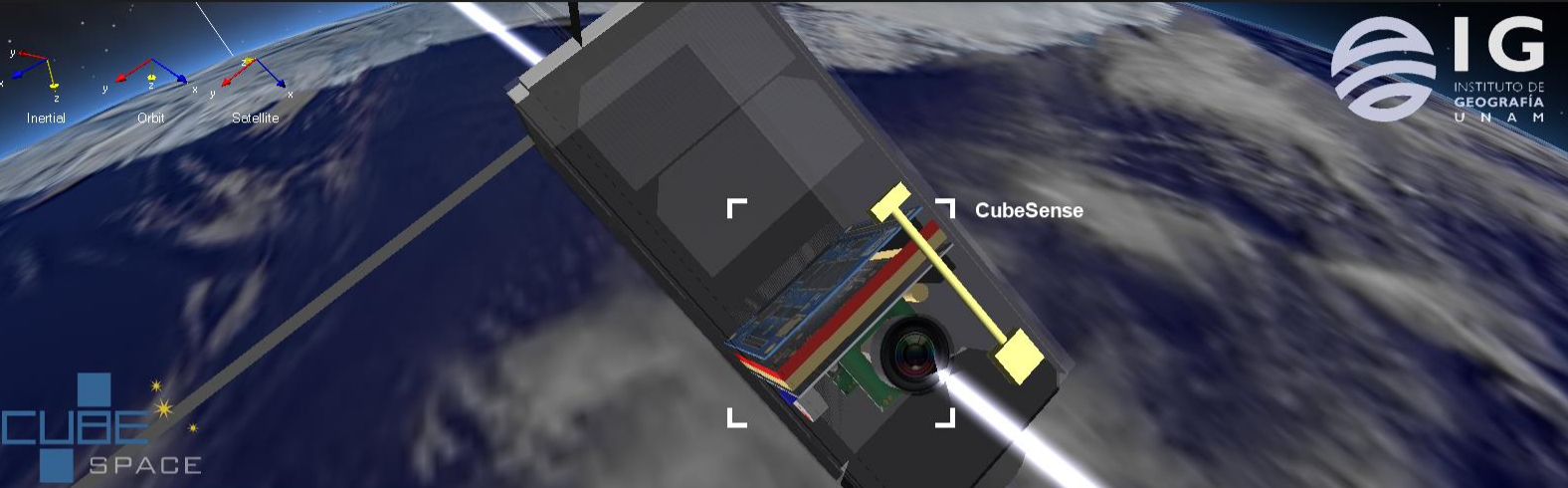
CubeSense

domingo, 1 de enero de 2017 0:16

Run Simulation Reset Simulation

0:00:16:45,5000000

i



IG INSTITUTO DE GEOGRAFIA UNAM

CubeSense

CUBE SPACE

CubeSense State

Nadir		
Measured Nadir Vector	{X:-0.246970961735114, Y:0.574017287004415, Z:0.78071089289168}	
Nadir Angle Measurement Error	0.053747931722425	deg
Sun		
Measured Sun Vector	{X:-0.152121840944681, Y:0.0902296694827007, Z:0.984234500641307}	
Sun Angle Measurement Error	0.537788295173655	deg

Initial X Rate 0.50 deg/s

Initial Y Rate -2.00 deg/s

Initial Z Rate -0.50 deg/s

Panel Torque Off

Magnetometer Stowed

Estimation Mode Mag RKF

Control Mode Detumbling

Surface Overlay None

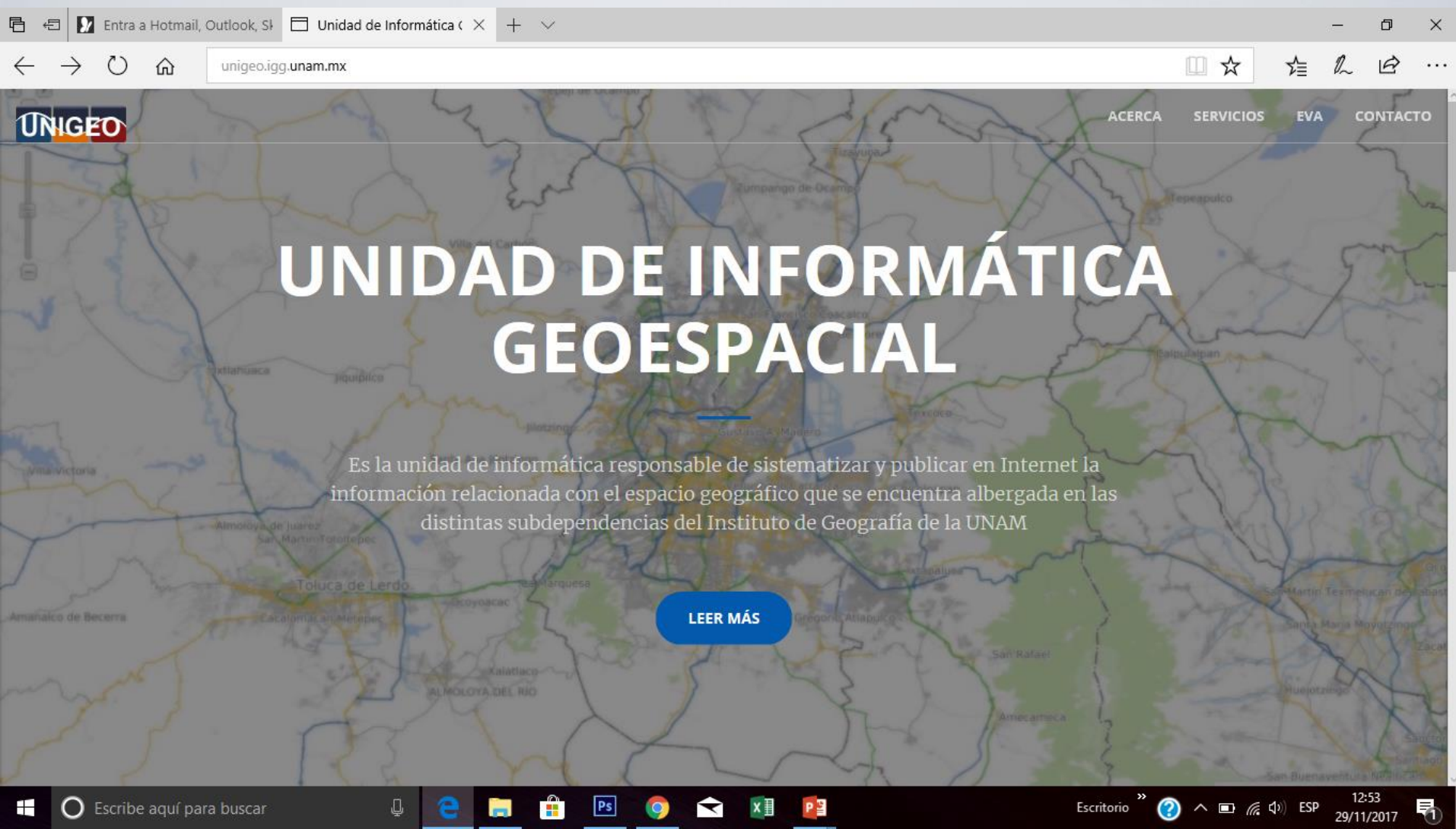
HIL (UART) Not connected

Ninguna notificación nueva (Desactivado)

13:14 28/03/2017

UNIGEO

Unit for Geospatial Information Management



The screenshot shows a web browser window displaying the website of the Unidad de Informática Geoespacial (UNIGEO). The browser's address bar shows the URL `unigeo.igg.unam.mx`. The website features a map of Mexico as a background. In the top right corner, there are navigation links: **ACERCA**, **SERVICIOS**, **EVA**, and **CONTACTO**. The main heading is **UNIDAD DE INFORMÁTICA GEOESPACIAL**. Below this, a paragraph states: "Es la unidad de informática responsable de sistematizar y publicar en Internet la información relacionada con el espacio geográfico que se encuentra albergada en las distintas subdependencias del Instituto de Geografía de la UNAM". A blue button labeled **LEER MÁS** is positioned below the text. The browser's taskbar at the bottom shows various application icons and the system clock indicating 12:53 on 29/11/2017.

UNIGEO

ACERCA SERVICIOS EVA CONTACTO

UNIDAD DE INFORMÁTICA GEOESPACIAL

Es la unidad de informática responsable de sistematizar y publicar en Internet la información relacionada con el espacio geográfico que se encuentra albergada en las distintas subdependencias del Instituto de Geografía de la UNAM

[LEER MÁS](#)

Windows taskbar: Escribe aquí para buscar, Escritorio, 12:53, 29/11/2017

UNIGEO

Unit for Geospatial Information Management

Entrar a Hotmail, Outlook, S... Unidad de Informática

unigeo.igg.unam.mx/eva/composer

UNIGEO Mapa Imprimir Identificar Consultar Medir Editar Iniciar sesión

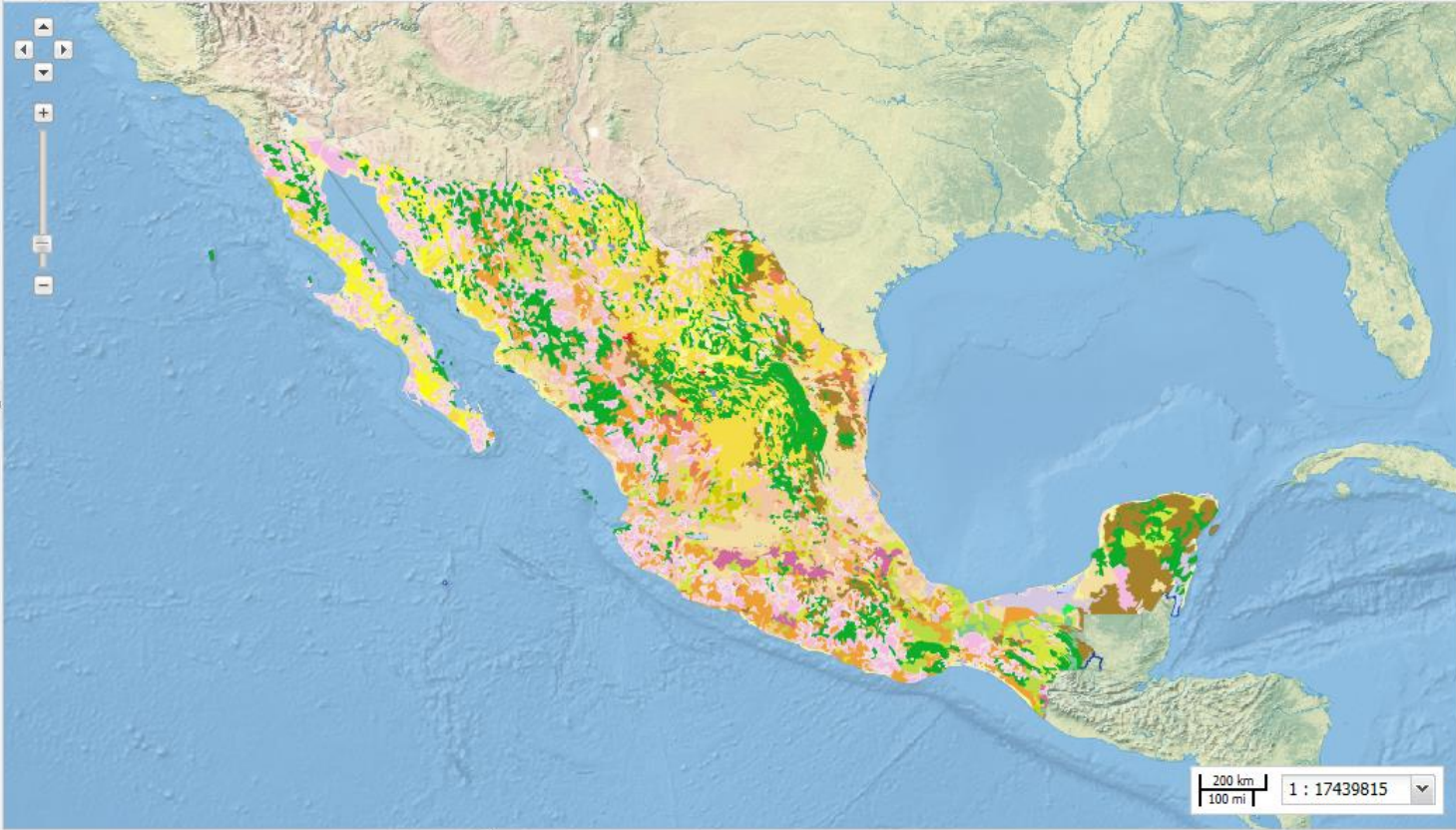
Capas Capas disponibles

Ver datos disponibles de:

UNIGEO

Título	Id
Inventario Nacional Forestal...	Z16
Inventario Nacional Forestal...	z14
Regional Completo	regional_completo
Inventario Nacional Forestal...	z12
Inventario Nacional Forestal...	Z13
Z14	Z14
Retícula	reticula
Mapa Base de México	mapabase
Z12	Z12
Suelos	suelos
z16	z16
Espaciomapas Inventario Na...	espaciomapas_inf20...
Mapa base República Mexica...	mapa_republica
Zonas de protección de la nat...	zonas_proteccion_n...
Inventario Nacional Forestal...	Z15
Uso de suelo y vegetación	uso_suelo_vegetacion
Inventario Nacional Forestal...	Z11
z13	z13
NE1_HR_LC_SR_W_DR	osm:NE1_HR_LC_S...
acueducto	unigeo:acueducto
aero-poly	osm:aero-poly
agriculture	osm:agriculture
ags_ageb_rural	unigeo:ags_ageb_ru...

Añadir Capas Hecho



200 km 100 mi 1 : 17439815

Escritorio 12:52 29/11/2017

Mixteca Alta Global Geopark

Integrating communities to these developments.



¡BIENVENIDOS AL GEOPARQUE
MIXTECA ALTA, OAXACA!



Mixteca Alta Global Geopark



A few final remarks

- Information sharing makes us stronger
 - Better and more research provide ground for better decision making
- Problems to be solved
 - ¿How should different information systems talk to each other
 - ¿How to store huge amounts of information?