
AEP
AGENCIA ESPACIAL DEL PARAGUAY
Musica:www.bensound.com

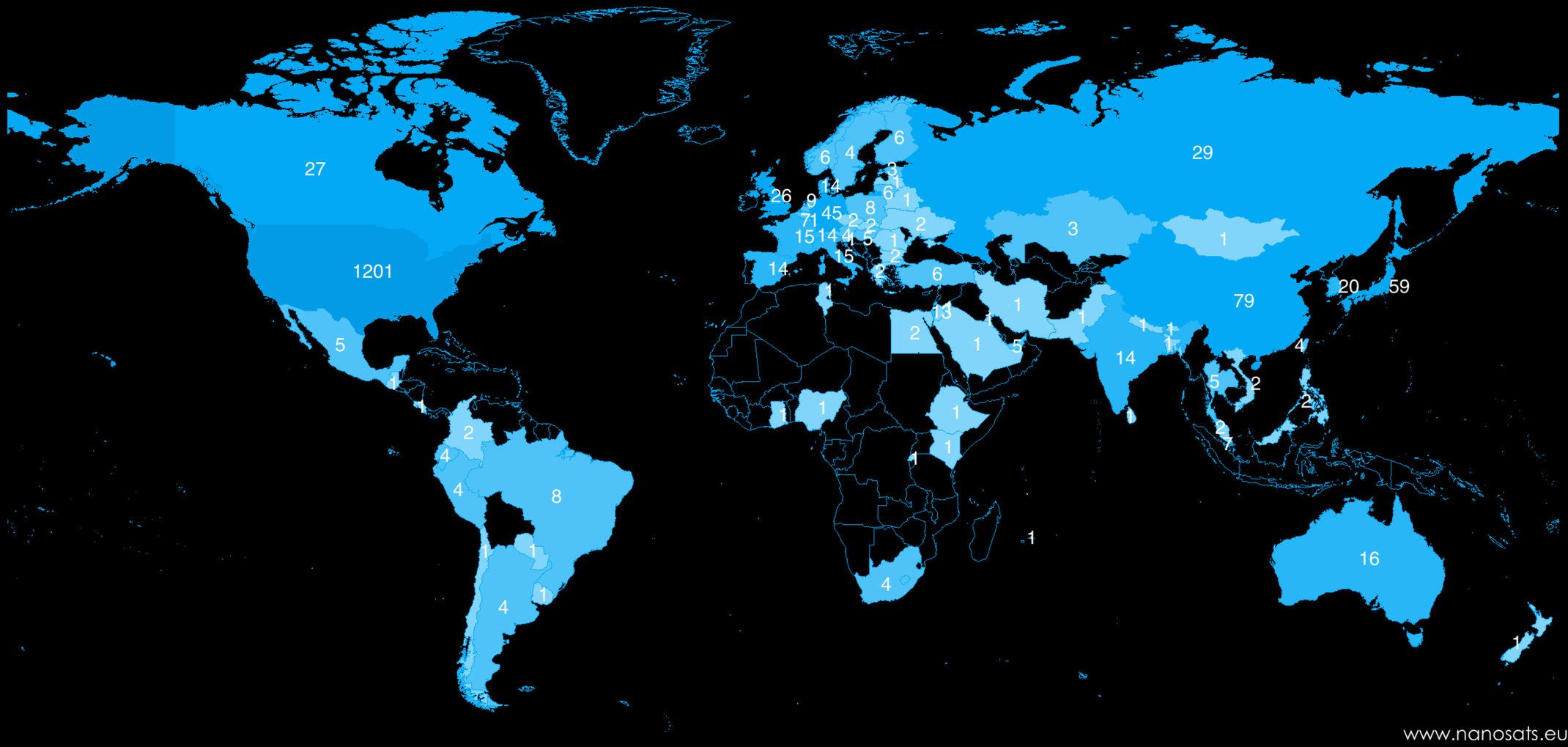
AEROSPACE **DEVELOPMENT**

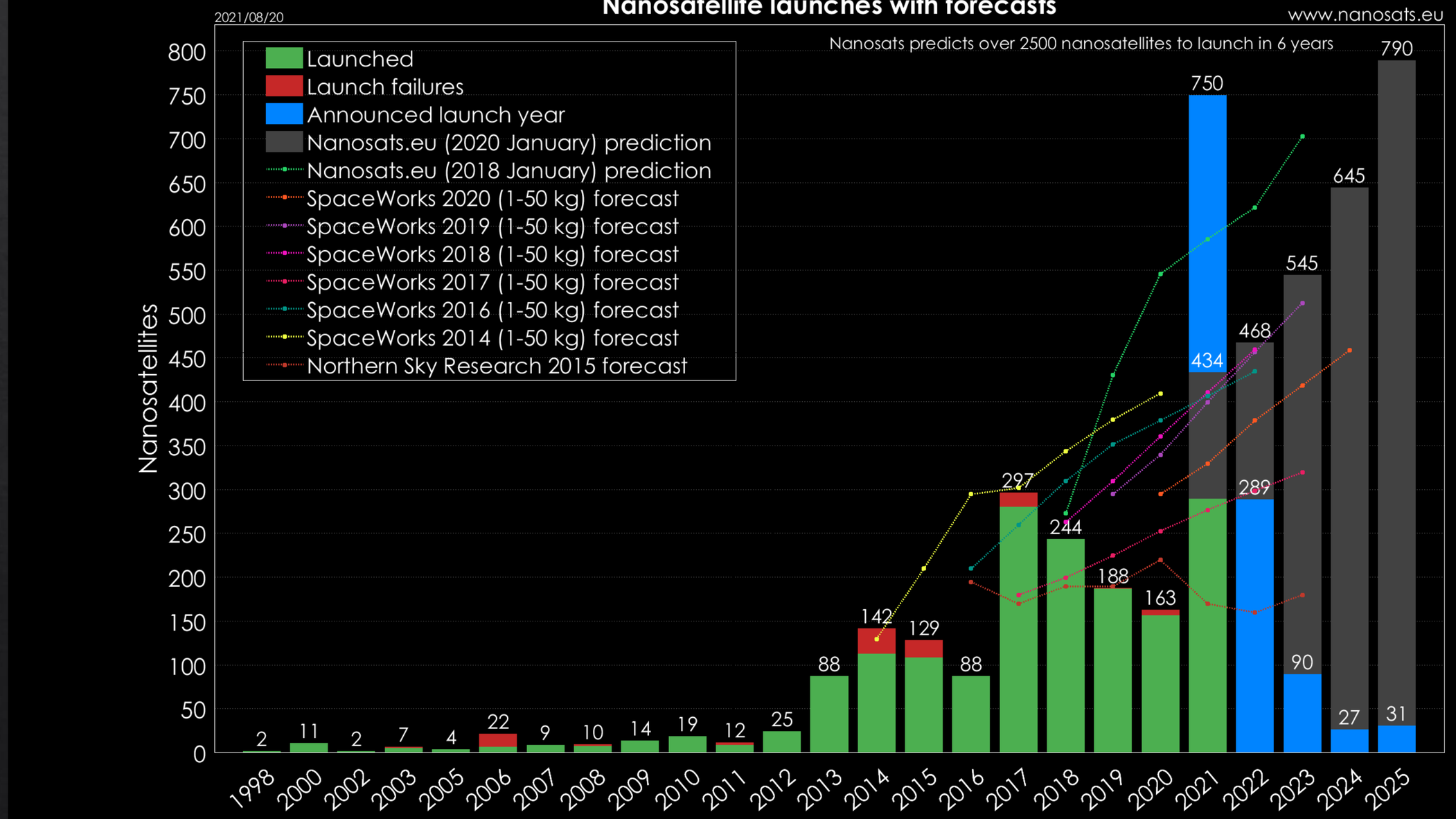
5 YEARS OF PARAGUAY SPACE AGENCY

Aerospace Industry

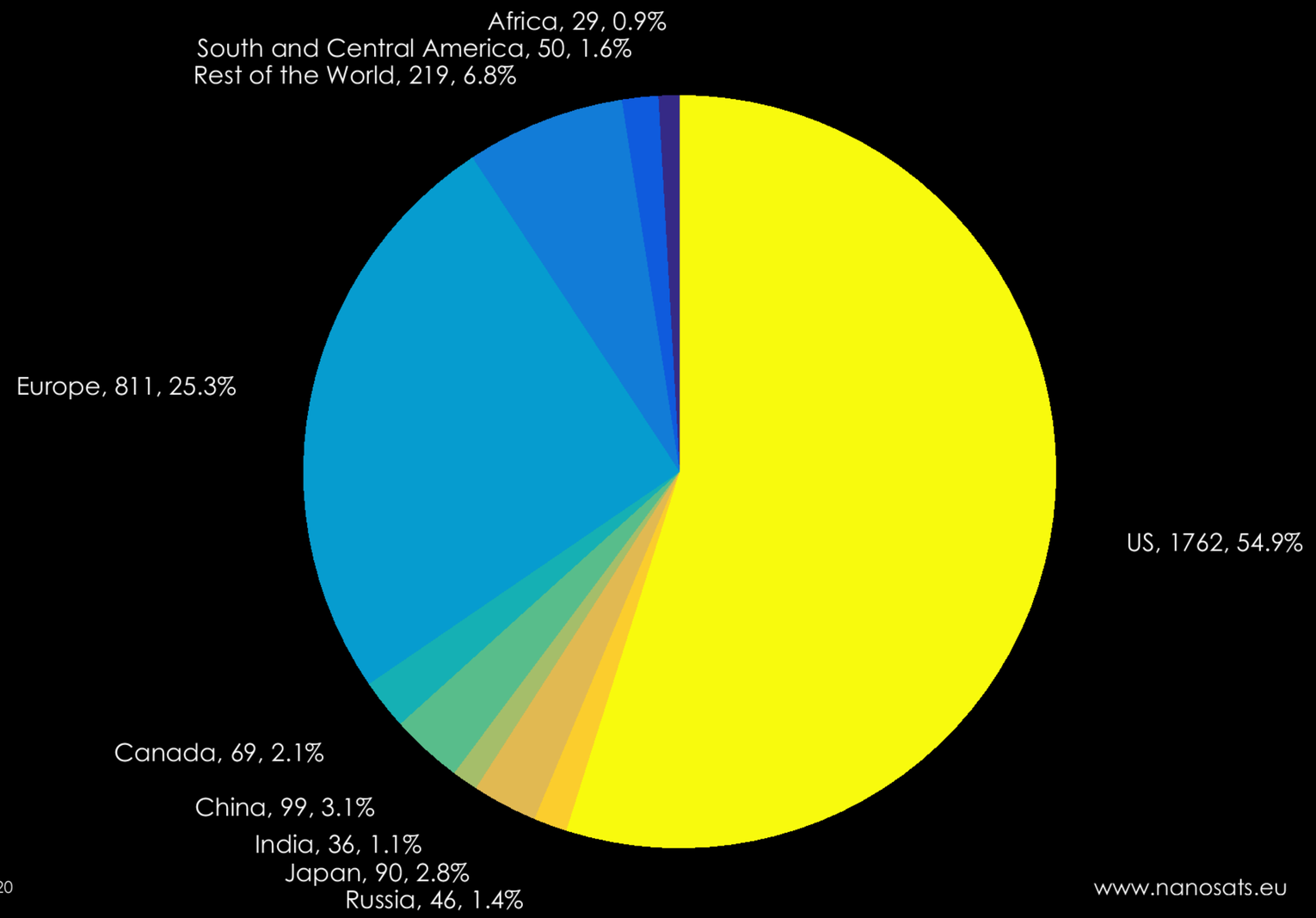
FUENTE: https://www.statista.com/topics/5049/space-exploration/#:~:text=The%20global%20space%20economy%2C%20valued,exploring%2C%20and%20utilization%20of%20space.

Launched nanosatellites




Nanosatellite launches with forecasts
2021/08/20
www.nanosats.eu
Nanosats predicts over 2500 nanosatellites to launch in 6 years
Launched
Launch failures
Announced launch year
Nanosats.eu (2020 January) prediction
Nanosats.eu (2018 January) prediction
SpaceWorks 2020 (1-50 kg) forecast
SpaceWorks 2019 (1-50 kg) forecast
SpaceWorks 2018 (1-50 kg) forecast
SpaceWorks 2017 (1-50 kg) forecast
SpaceWorks 2016 (1-50 kg) forecast
SpaceWorks 2014 (1-50 kg) forecast
Northern Sky Research 2015 forecast
Nanosatellites
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
2
11
2
7
4
22
9
10
14
19
12
25
88
142
129
88
297
244
188
163
750
434
289
468
90
545
27
645
31
790
1998
2000
2002
2003
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

All nanosatellites by locations



2021/08/20

www.nanosats.eu


12-01
15:26
48°C
LUMINOTECNIA
CHANGE
AEP
AGENCIA ESPACIAL DEL PARAGUAY

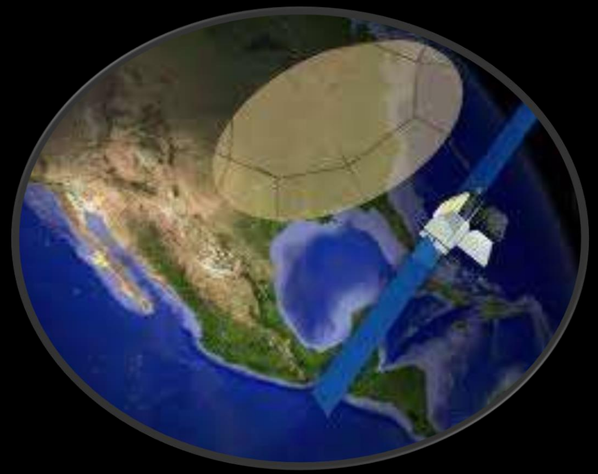
CREDIT: CNES

Satellites

CREDITO:NASA

Benefits of space

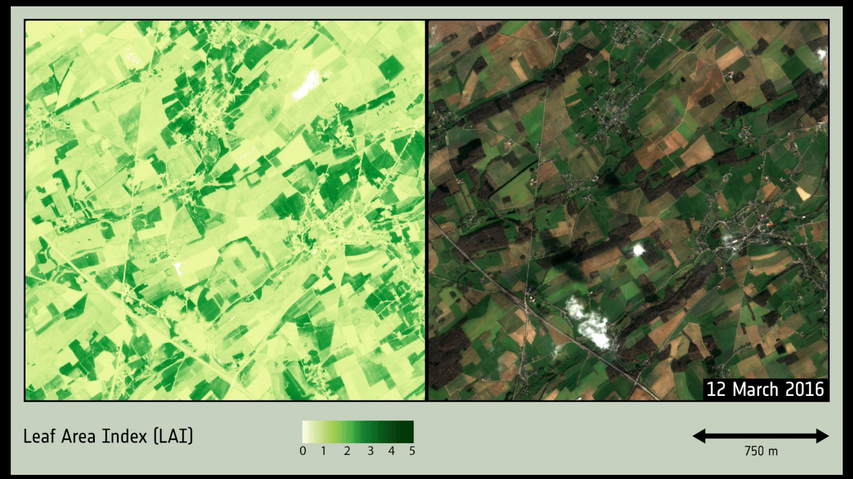
- Transmission of signals from satellites to different points on Earth to provide communications services

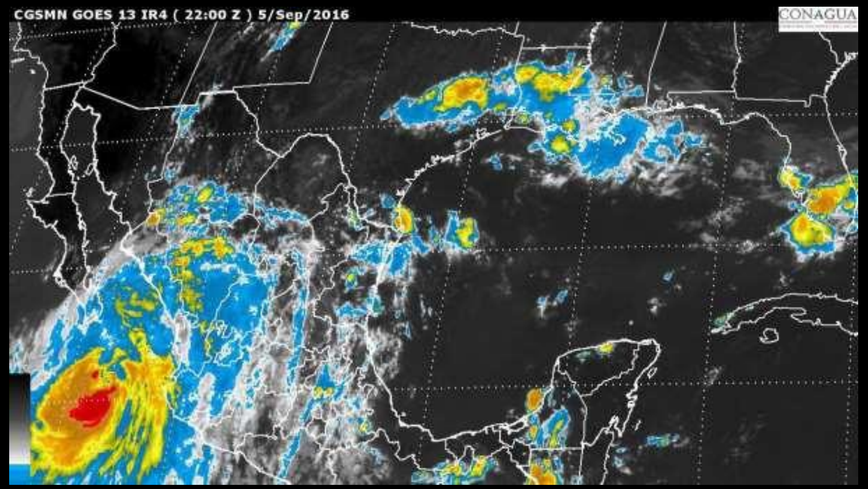


FUENTE :AEM

Benefits of space

- Vision of the Earth as a whole, for the monitoring of physical, natural and human activities in wide regions and on a global basis

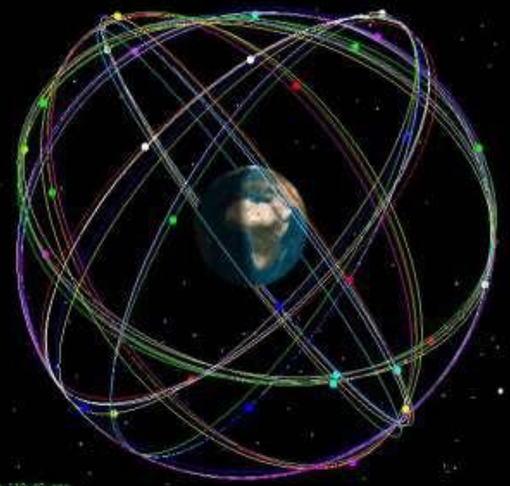




FUENTE :AEM

Benefits of space

- It provides positioning, weather and navigation services across satellite constellations and ground support systems.



FUENTE :AEM

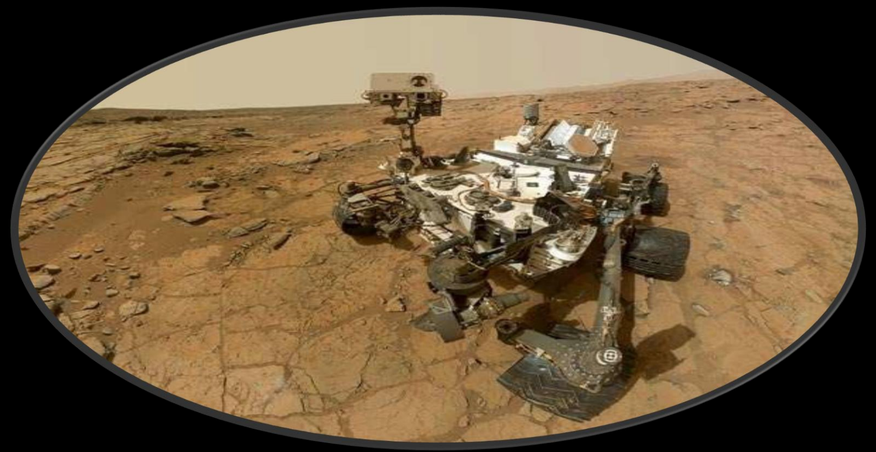
Benefits of space

- Using the microgravity environment for research and production

FUENTE :AEM

Benefits of space

- Observation and exploration of the universe to expand scientific knowledge



FUENTE :AEM

Benefits of space

- Powerful tool to achieve SDG´s

SPACE4SDGS

Why develop Aerospace Science and Technology

- Generator of productive transformations and accelerator of the scientific, technological, industrial, commercial and social development of the country

Aerospace Development at the AEP

Capacity building in Basic Space Engineering

- TTHH Training Worldwide
- CanHABSat
- CubeSat (first Paraguayan satellite)
- Other

Earth Observation Applications

- Emergencies (Floods, Fires, Severe Storms))
- Agriculture (Precision Agriculture)
- Cadastre
- Deforestation
- Water resources
- Critical Infrastructure
- Panoramic Epidemiology
- Territorial Planning

Benefits and Opportunities of Aerospace Development

- Applications in Earth Observation


EMERGENCY

International Charter Space & Major Disasters

- International Charter
  Space and Major Disasters
- Provision of satellite data to those affected by natural or man-made disasters through registered organizations, for use in monitoring and response activities

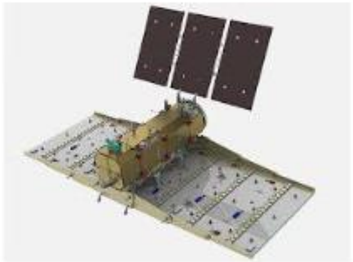
Institutions involved

AEP	FACULTAD DE CIENCIAS AGRARIAS	INFONA
SEN	WWF	OTROS ORGANISMOS E INSTITUCIONES

registro.conae.gov.ar

Aplicaciones Bookmarks Alexa SNTCS AEP ZIMADM YHO Outlook TW LNK UNIDA VIRTUAL FCB OneDrive FNCD Otros marcadores

Lista de catálogos disponibles

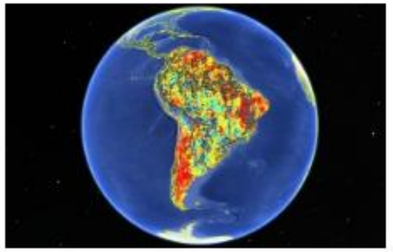


SAOCOM

IR AL CATÁLOGO

Sistema de GEOAvisos

IR AL CATÁLOGO



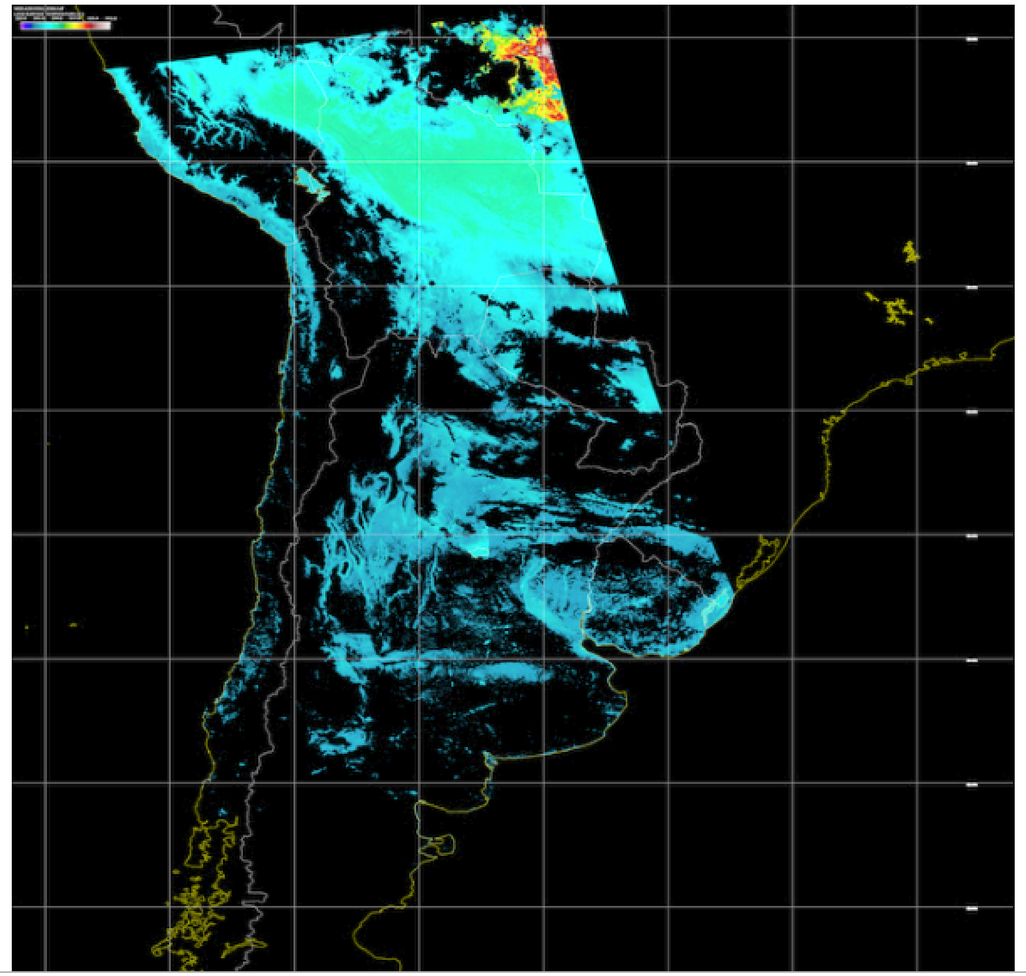
Humedad de Suelo SAC-D AQ/SMOS

IR AL CATÁLOGO

https://registro.conae.gov.ar

terra_modis_20190....zip

Mostrar todo



Satélite:	TERRA
Sensor:	MODIS
Fecha de Inicio:	18-Sep-2019
Hora de Inicio (UTC):	03:05:10 AM
Orbita:	5050
Dirección:	ASC
Modo de Adquisición:	NIGHT
Tipo de Producto:	TEMPERATURA SUPERFICIAL DE LA TIERRA (LST)
Esquina Sup. Izq.:	50° 24' 39" S / 40° 51' 36" W
Esquina Sup. Der.:	55° 18' 16" S / 82° 40' 48" W
Esquina Inf. Izq.:	11° 24' 43" S / 81° 19' 27" W
Esquina Inf. Der.:	8° 40' 55" S / 60° 13' 9" W
Software de Procesamiento:	IMAPP1L2
Estación:	ETC

Descargar Producto en GeoTiff compactado como .ZIP (10.15 Mb.)

Descripción del Producto en formato PDF

Copernicus Open Access Hub

Insert search criteria...

Display 1 to 10 of 10 products.
Order By: Ingestion Date ↓ **1 product selected**

-21.15136447556759,-57.1114966187978
-21.15136447556759,-57.1114966187978
-18.701892461496243,-61.1449960675004

S3A SLSTR S3A_SL_1_RBT____20190916T132306_20190916T132606_2...

Download URL: https://scihub.copernicus.eu/dhus/odata/v1/Products('13
Mission: Sentinel-3 Instrument: SLSTR Sensing Date: 2019-09-16T13:1

S3A OLCI S3A_OL_1_ERR____20190916T125516_20190916T133929_201...

Download URL: https://scihub.copernicus.eu/dhus/odata/v1/Products('0d

25 << < page: 1 of 1 > >>

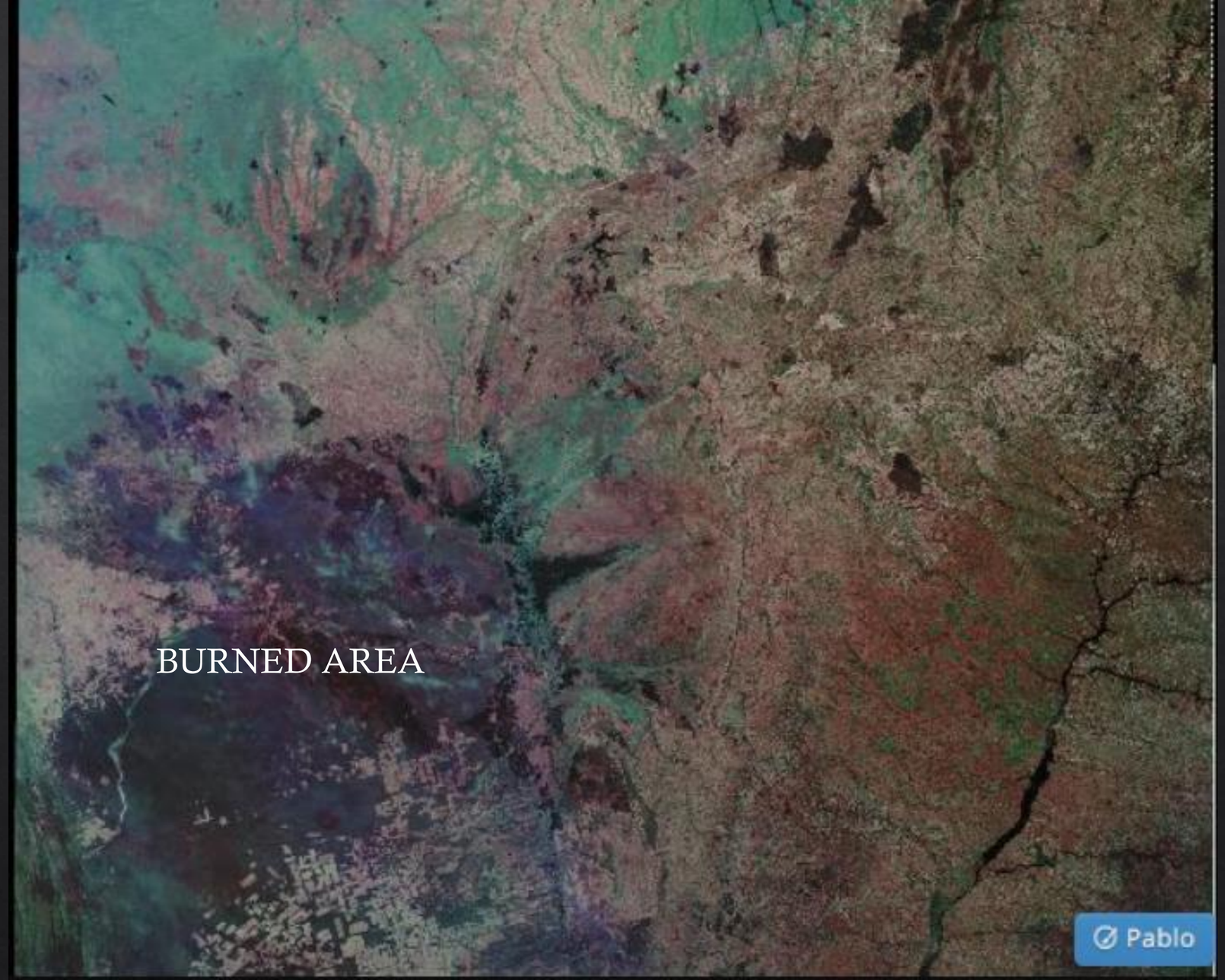
DMS

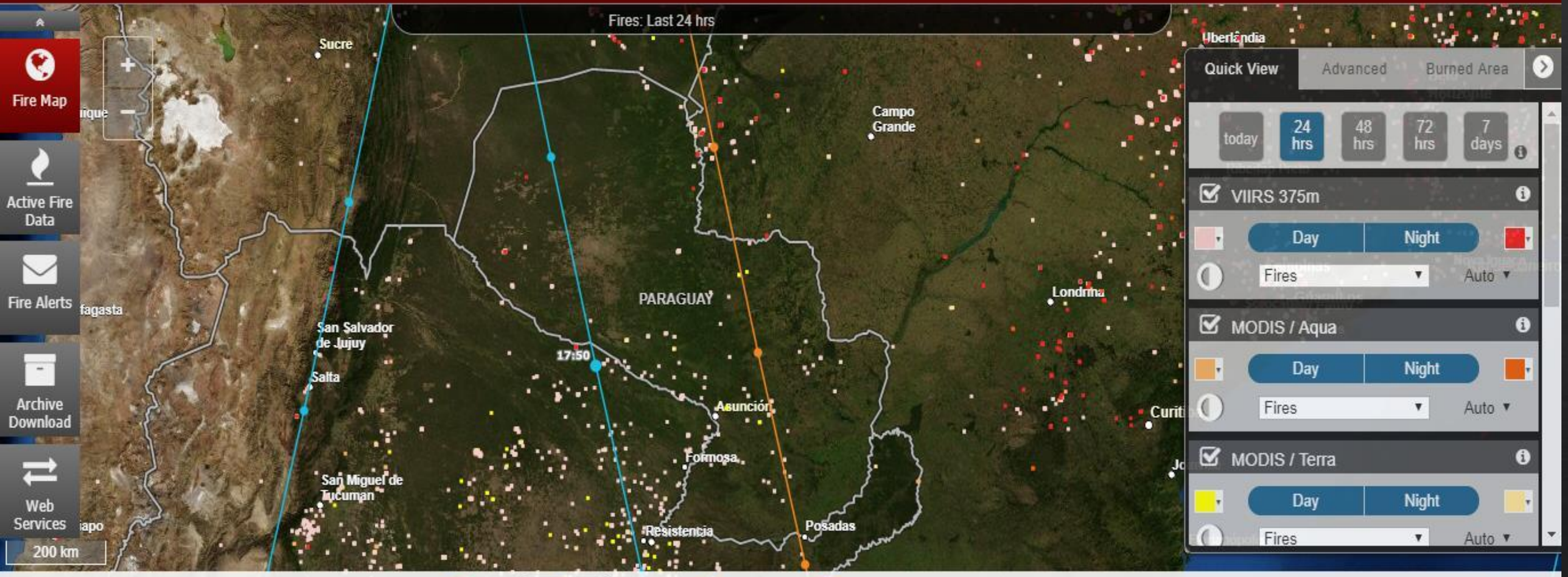
Barreiras
Cuiaba
Brasilia
Goiania
Bolivia
San Ignacio de Velasco
Rondonopolis
Rio Verde
Corumba
Uberlandia
Uberaba
Belo Horizonte
Campo Grande
Ribeirão Preto
Franca
Presidente Prudente
Birigui
Dourados
Piracicaba
Rio de Janeiro
Londrina
São Paulo
Paraguay
Apucarana
Santos
Asuncion
Ciudad del Este
Toledo
Curitiba
Formosa
Salta

Open Street { Data © OpenStreetMap contributors, Rendering © MapServer and EOX}

terra_modis_20190....zip

Mostrar todo


BURNED AREA
Pablo



Last Updated: 2019-09-17 16:48 GMT
Version: VIIRS 375 m

PAN | IDENTIFY | BASEMAPS | OVERLAYS | MAXIMIZE | SHARE | HELP

UNIFIED DAILY REPORT

- PRESS
- PCIA REPUBLICA
- GENERAL PUBLIC


LV-BOD


INTERNATIONAL CHARTER SPACE & MAJOR DISASTERS
CHARTE INTERNATIONALE ESPACE ET CATASTROPHES MAJEURES
DISASTERSCHARTER.ORG
esa
cnes
CSA ASC
NOAA
USGS
JAXA
DLR
KARI
EUMETSAT
ROSCOSMOS
ABAE

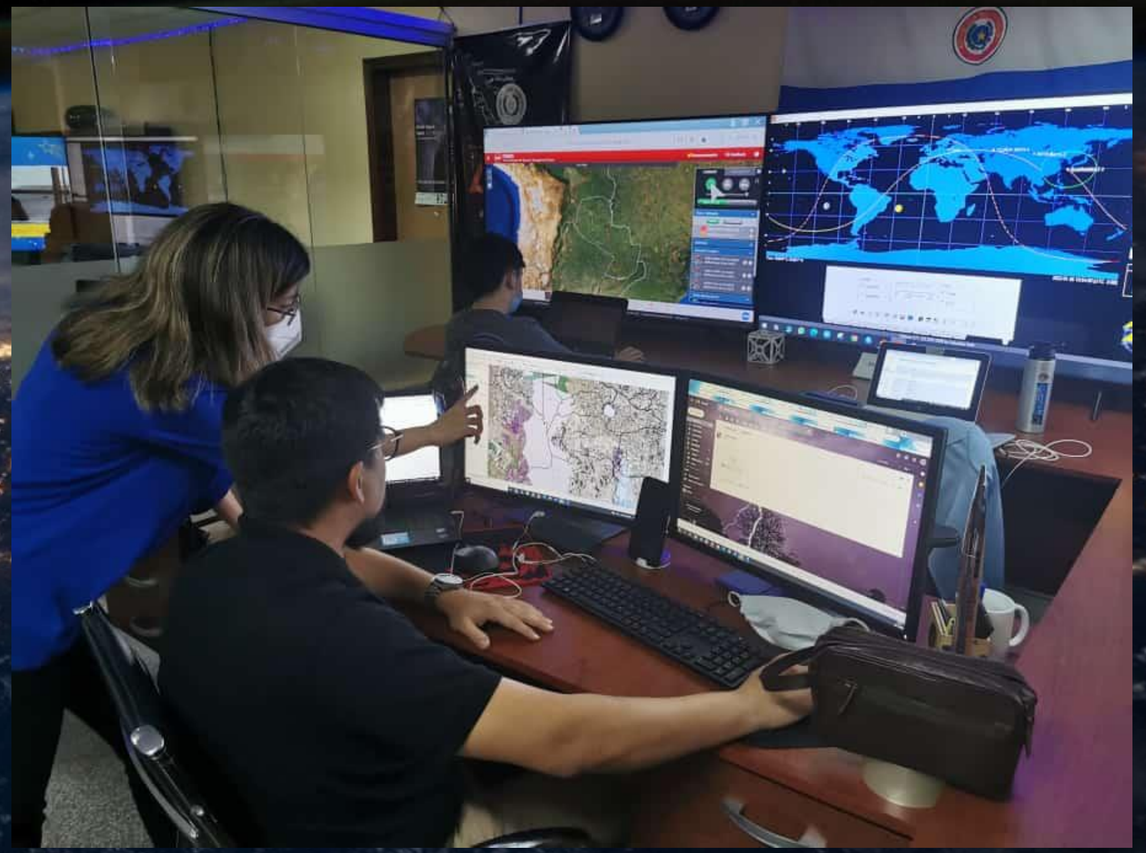

PYTYVÕ
PYA'ERÃ
Sãsỹbyhyha
Secretaría de
EMERGENCIA
TETÃ REKUÁI
GOBIERNO NACIONAL
March 25th, 2019 vs. May 14th, 2019
International Charter Call ID 700
TETÃ REKUÁI
GOBIERNO NACIONAL

GEO Lab

- Disaster Risk Reduction
- Droughts
- Fire
- Floods
- Severe Weather
- Precision Agriculture
- Territorial Planning
- Natural Resource Management
- Deforestation
- Water
- NEOs
- Space Junk
- Other

AGENCIA ESPACIAL DEL PARAGUAY

Staff and Collaborators

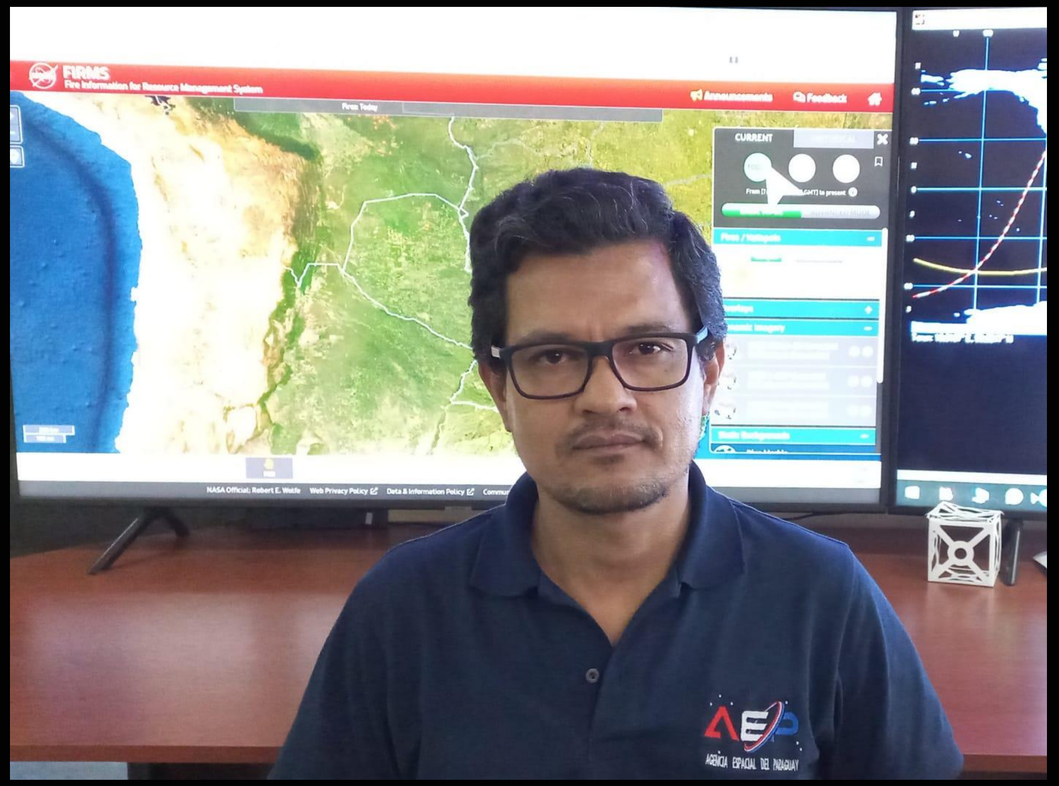


Prof. Mg. Alejandro Roman

General Director of Execution and Aerospace and Development

Ing. Electrónico Rodrigo Fleytas

Head of the Remote Sensing Systems Department



Ing. For. Edgar Jordan Rojas Garcia

Remote Sensing and GIS Analyst

Univ. Thanya Idoyaga

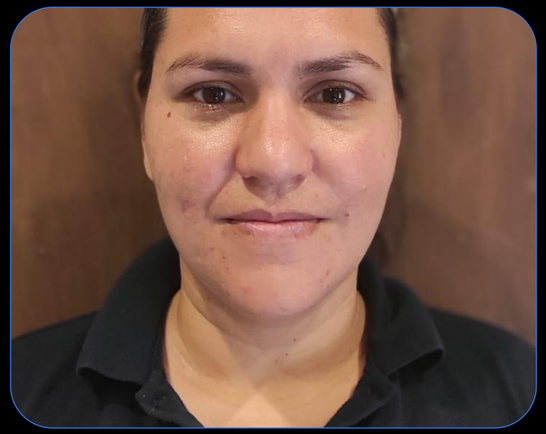
Remote Sensing and GIS Analyst

Ing. Civil Lucía Fariña Amarilla

Academic Coordinator of the Specialization in Remote Sensing and GIS of the Universidad del Pacifico (35 students)

UNIVERSITY OF THE PACIFIC
Specialization in Geographic Information Systems and Remote Sensing

GROUP 1
Members:
Katya Elise Bogado Ferioli
Patricia Celeste Benitez Almada
Fatima Benitez
Elizabeth Rocholl
Country: Paraguay
University: Universidad Pacifico
TOPIC Risk Management: drought in the last 60 years in the area of Caaguazú and Alto Paraná.



UNIVERSITY OF THE PACIFIC
Specialization in Geographic Information Systems and Remote Sensing

GROUP 2

MEMBERS

MARIEL GUADALUPE NOVOA

EDELIN ROCIO CASCO VERA

FANNY EMILCE AGUERO BAEZ

TOPIC Early warnings of deforestation Canindeyu Department

UNIVERSITY OF THE PACIFIC
Specialization in Geographic Information Systems and Remote Sensing

GROUP 3

MEMBERS

Lucia Allegreti

Lilian Ayala

Claudia Turner

THEME Flood zone Bañado Asunción

UNIVERSIDAD DEL PACIFICO

Especialización en Sistemas de Información Geográfica y Teledetección

GRUPO 4

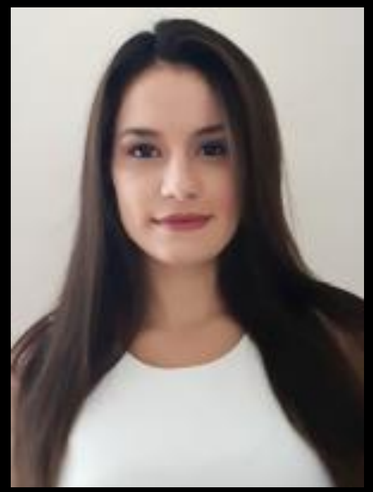
INTEGRANTES

Rodrigo Fleitas

María Paz Rejala

Elva Echeverria

Pais: Paraguay
Universidad: Universidad Pacifico
Tema Focos de Incendios



ALLIANCES

- ACADEMY (UNA, UP, USC, UC, Other Univ.)
- GOVERNMENT (SEN, INFONA, MADES, INE, CADASTRE, Municipalities, Other Institutions)
- PRIVATE SECTOR (Agricultural producers, NGOs, Other agencies)


HEALTH

Análisis de riesgo por criaderos de mosquitos

BARRIOS

- DE LA RESIDENTA
- DR. GASPAR RODRIGUEZ DE FRANCIA
- GRAL BERNARDINO CABALLERO
- GRAL JOSE EDUVIGIS DIAZ
- HIPODROMO
- ITA ENRAMADA
- ITA PYTA PUNTA
- JARA
- JUKYTY
- LA CATEDRAL
- LA ENCARNACION
- LAS LOMAS
- LAS MERCEDES
- LOMA PYTA
- LOS LAURELES
- LUIS ALBERTO DE HERRERA
- MADAME ELISA ALICIA LINCH
- MANORA
- MARISCAL FRANCISCO SOLANO LOPEZ

Última actualización: hace un minuto

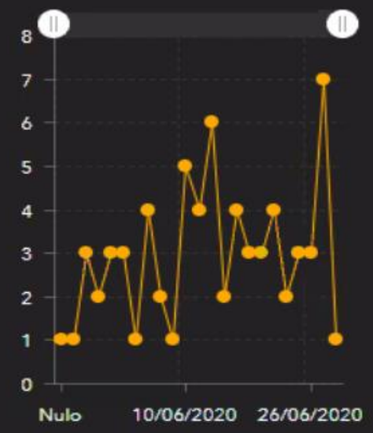
Total criaderos existentes
119.147
Última actualización: hace 22 minut

Indice de Infestación
417,744
Medido en porcentaje
Última actualización: hace 22 minut

Indice de Bretau
490,857
Medido en porcentaje
Última actualización: hace 22 minut

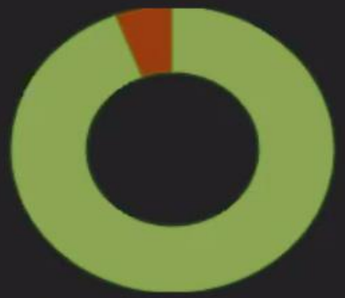
Indice de Infestación Rec
19,388
Medido en porcentaje
Última actualización: hace 22 minut

Análisis temporal



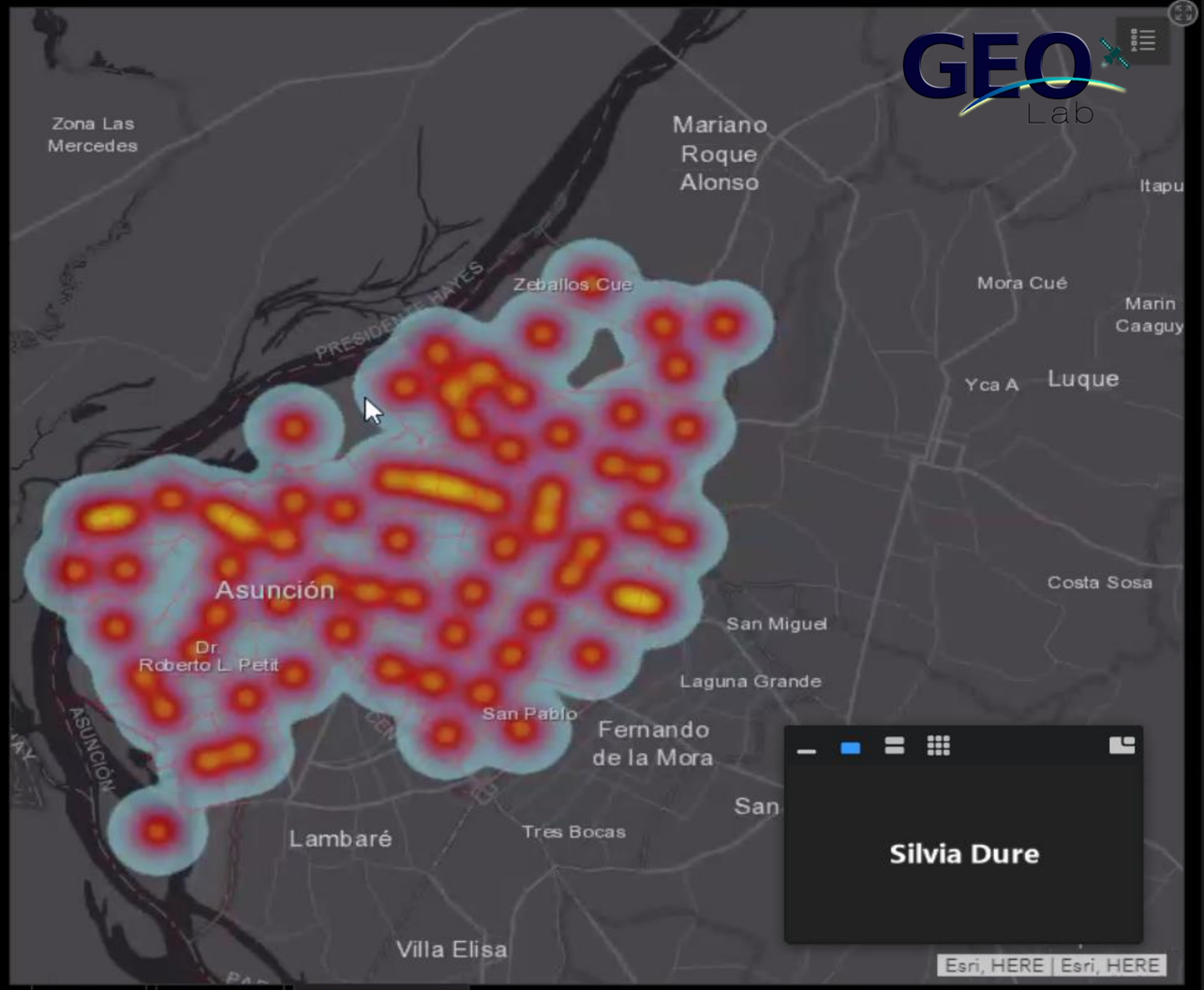
Última actualización: hace 22 minutos

Cantidad de casas investigadas vs casas con criaderos



Total casas investigadas 4.776
Total casas positivas 295

Última actualización: hace 22 minutos



General | Indicador | Mapa de calor

Análisis de riesgo por criaderos de mosquitos

BARRIOS

- DE LA RESIDENTA
- DR. GASPAR RODRIGUEZ DE FRANCIA
- GRAL BERNARDINO CABALLERO
- GRAL JOSE EDUVIGIS DIAZ
- HIPODROMO
- ITA ENRAMADA
- ITA PYTA PUNTA
- JARA
- JUKYTY
- LA CATEDRAL
- LA ENCARNACION
- LAS LOMAS
- LAS MERCEDES
- LOMA PYTA
- LOS LAURELES
- LUIS ALBERTO DE HERRERA
- MADAME ELISA ALICIA LINCH
- MANORA
- MARISCAL FRANCISCO SOLANO LOPEZ

Última actualización: hace unos segund

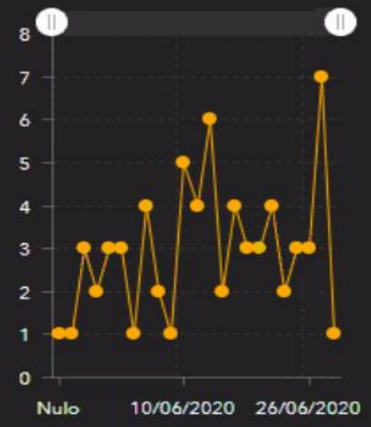
Total criaderos existentes
119.147
Última actualización: hace 21 minut

Indice de Infestación
417,744
Medido en porcentaje
Última actualización: hace 21 minut

Indice de Bretau
490,857
Medido en porcentaje
Última actualización: hace 21 minut

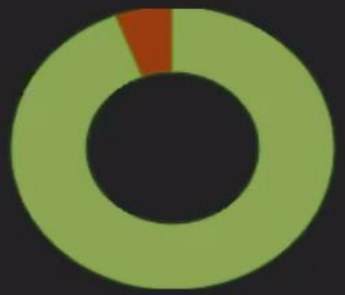
Indice de Infestación Rec
19,388
Medido en porcentaje
Última actualización: hace 21 minut

Análisis temporal



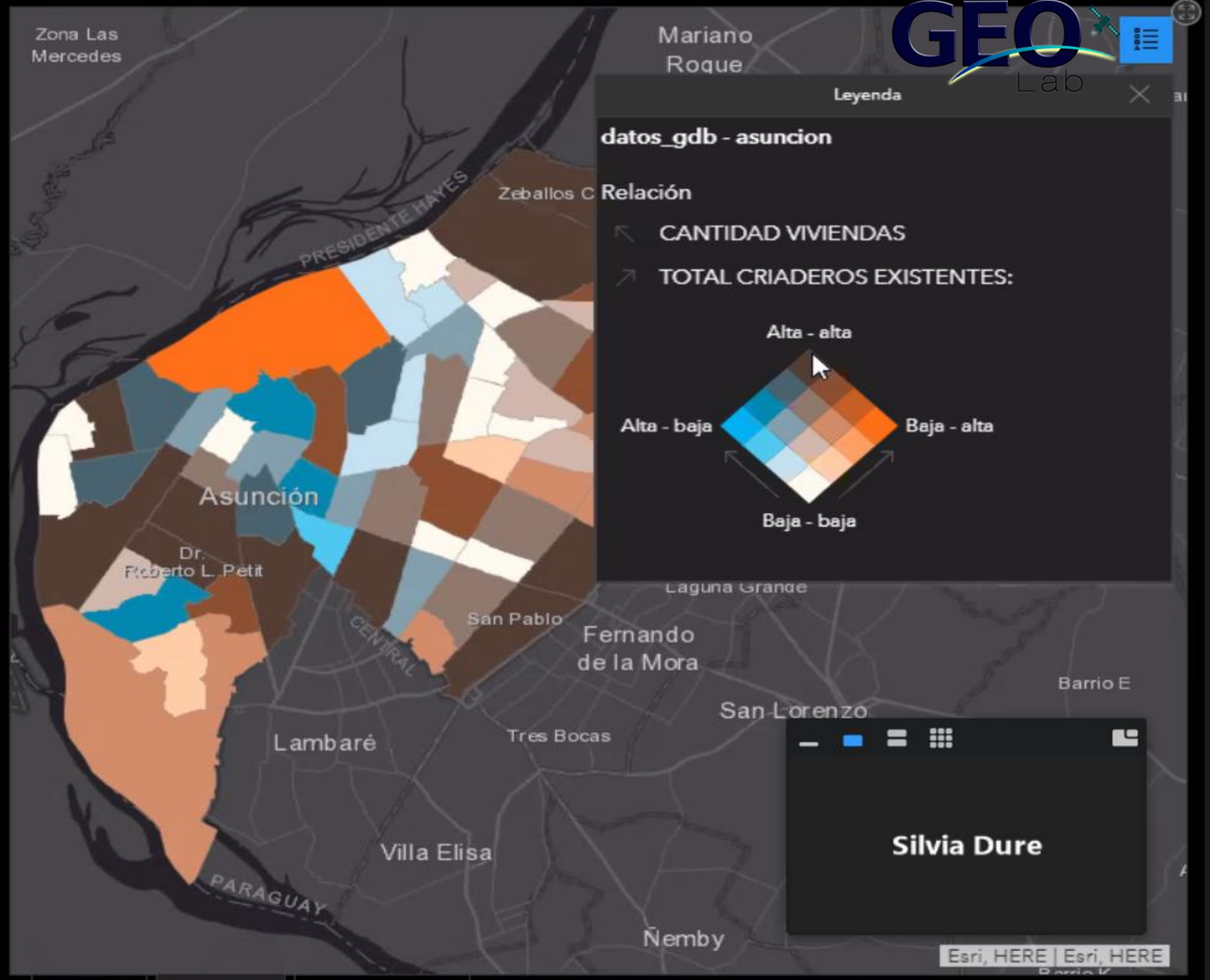
Última actualización: hace 21 minutos

Cantidad de casas investigadas vs casas con criaderos

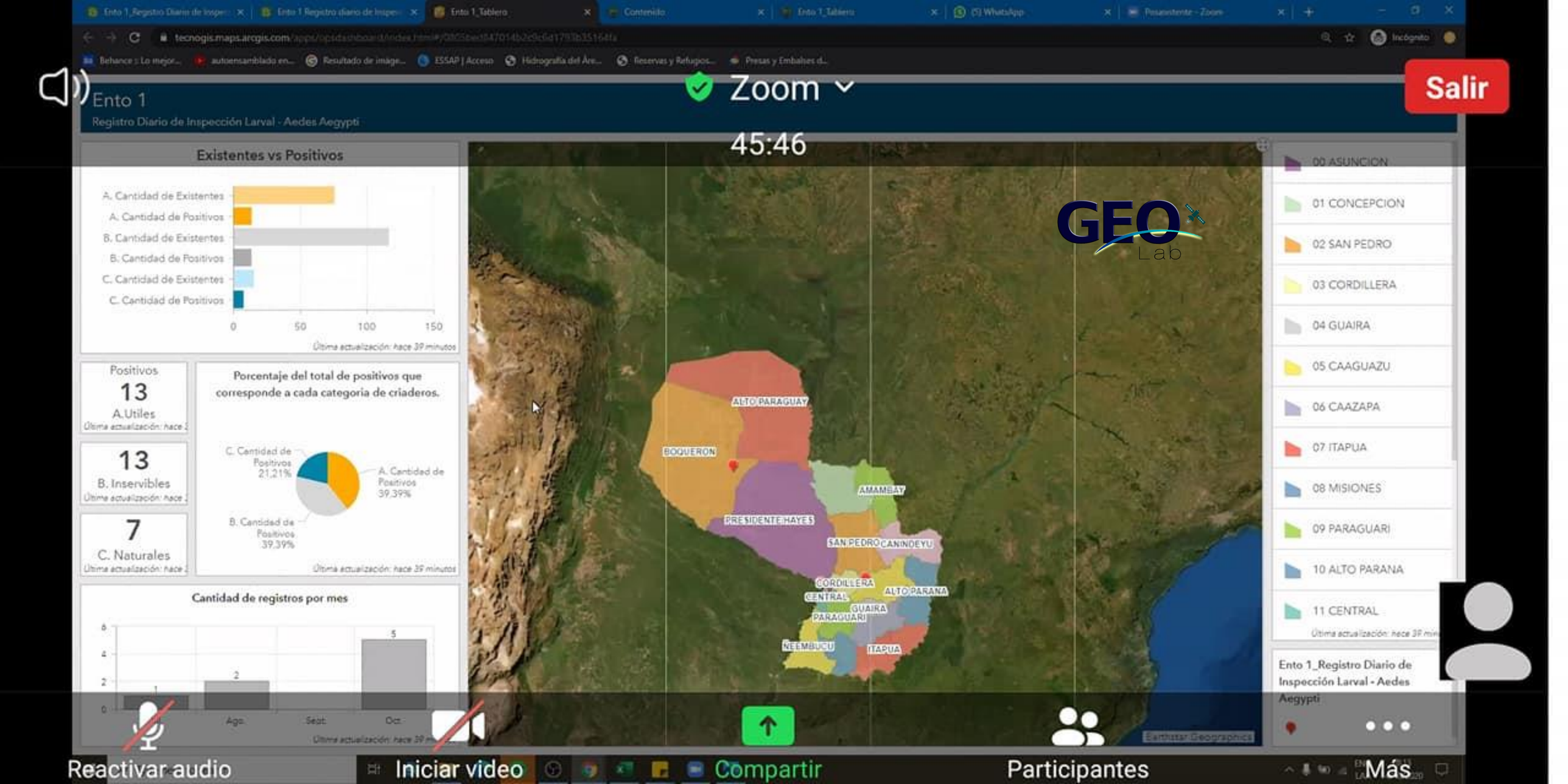


Total casas investigadas 4.776
Total casas positivas 295

Última actualización: hace 21 minutos



General | Indicador | Mapa de calor

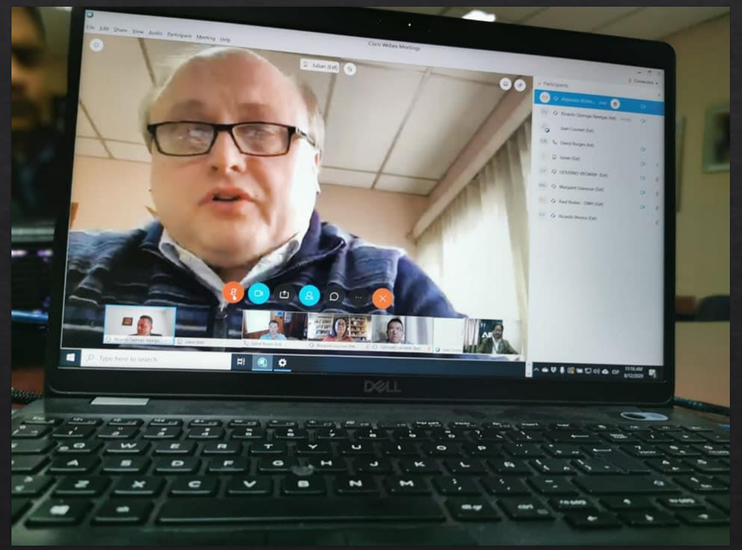

Zoom
45:46
Salir
Ento 1
Registro Diario de Inspección Larval - Aedes Aegypti
Existentes vs Positivos
A. Cantidad de Existentes
A. Cantidad de Positivos
B. Cantidad de Existentes
B. Cantidad de Positivos
C. Cantidad de Existentes
C. Cantidad de Positivos
0
50
100
150
Última actualización: hace 39 minutos
Positivos
13
A.Utiles
13
B. Inservibles
7
C. Naturales
Porcentaje del total de positivos que corresponde a cada categoria de criaderos.
C. Cantidad de Positivos 21,21%
A. Cantidad de Positivos 39,39%
B. Cantidad de Positivos 39,39%
Cantidad de registros por mes
Ago.
Sept.
Oct.
ALTO PARAGUAY
BOQUERON
AMAMBAY
PRESIDENTE HAYES
SAN PEDRO
CANINDEYU
CORDILLERA
CENTRAL
ALTO PARANA
GUAIRA
PARAGUARI
NEEMBUCU
ITAPUA
GEO Lab
00 ASUNCION
01 CONCEPCION
02 SAN PEDRO
03 CORDILLERA
04 GUAIRA
05 CAAGUAZU
06 CAAZAPA
07 ITAPUA
08 MISIONES
09 PARAGUARI
10 ALTO PARANA
11 CENTRAL
Ento 1_Registro Diario de Inspección Larval - Aedes Aegypti
Reactivar audio
Iniciar video
Compartir
Participantes
Más

SENEPA


Análisis de riesgo por criaderos de mosquitos
Hablando: Informatica Senepa
BARRIOS
SAN VICENTE
REPUBLICANO
PINOZA
CIUDAD NUEVA
TTE. SILVIO PETTIROSSI
GRAL JOSE EDUARDO DIAZ
SAN ROQUE
OBISPO INTENDENTE R. GUGGIARI
GRAL BERNARDINO CABALLERO
MBURICAO
NAZARETH
TERMINAL
HIPODROMO
SAN PABLO
TEMBETARY
LOS LAURELES
VILLA AURELIA
MCAL. JOSE FELIX ESTIGARRIBIA
Cantidad de viviendas
139.597
Fuente: DGEEC 2017
Viviendas Investigadas
4.776
Fuente: SENEPA 2020
Viviendas criaderos positivos
295
Fuente: SENEPA 2020
Indice de infestación
6,179
Medido en porcentaje
Indice de Breteau
7,218
Medido en porcentaje
Análisis temporal
Total viviendas investigadas vs Viviendas con criaderos positivos
Total casas investigadas
Total casas positivas
Fernando de la Mora
Lambaré
Villa Elisa
Ñemby
Mapa de calor

COLLABORATION OF NASA

TECHNICAL MEETING WITH NASA ON FLOODS WITH THE PARTICIPATION OF THE WMO REGIONAL DIRECTOR AND REPRESENTATIVES OF SEVERAL INSTITUTIONS



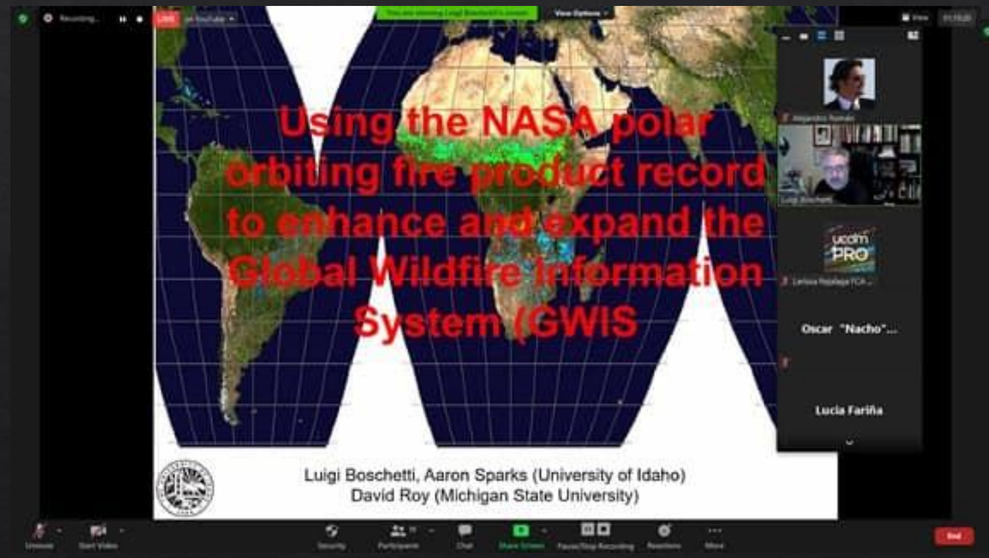
WORLD SPACE WEEK

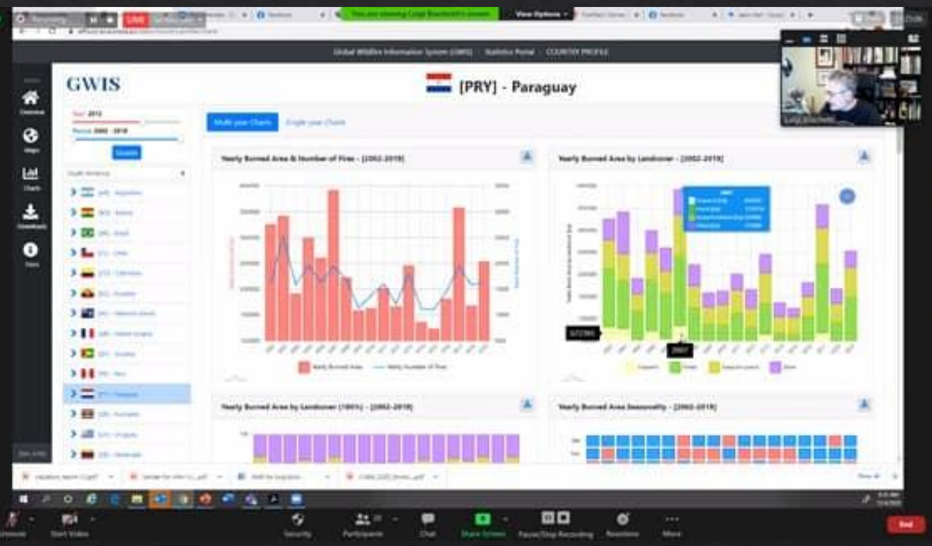
- CO-ORGANIZING FORUM WITH NASA AND THE UNITED NATIONS OFFICE FOR DISASTER RISK REDUCTION WITH MORE THAN 50 SPEAKERS, 12 FROM NASA.
-

zoom

PRESENTATION OF RESULTS NASA UNIVERSITY OF IDAHO, MICHIGAN STATE UNIVERSITY, AEP

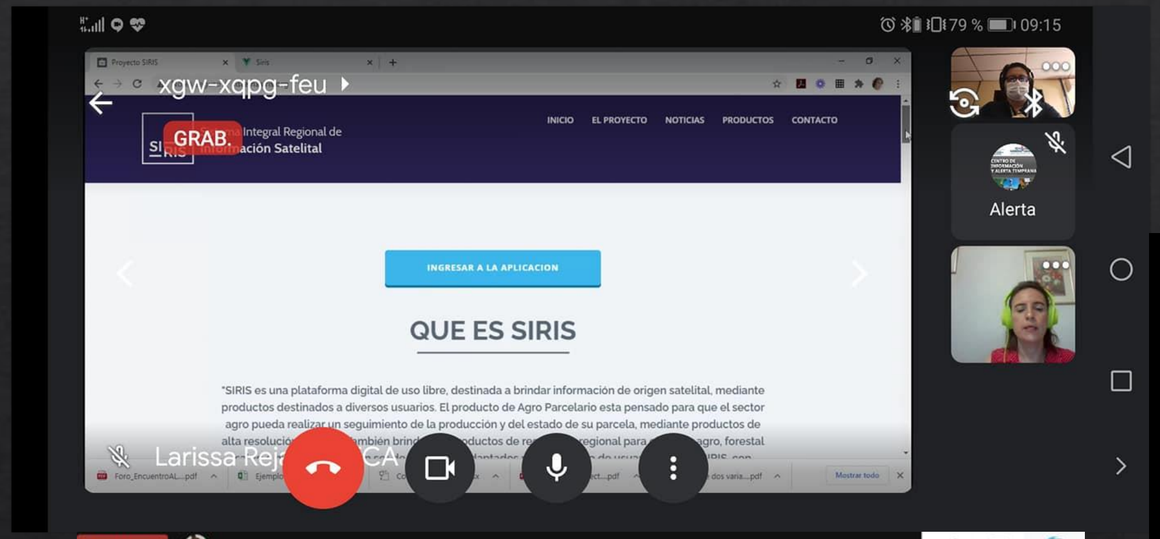
- MADES
- INFONA
- WWF
- SEN
- FCA-UNA

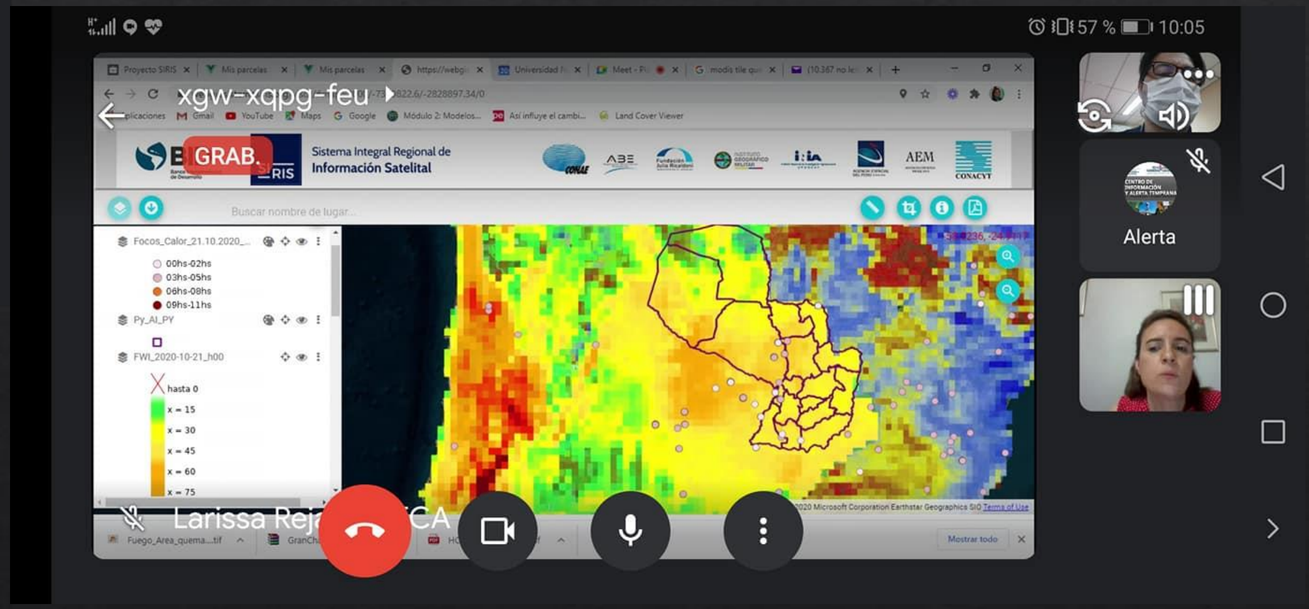


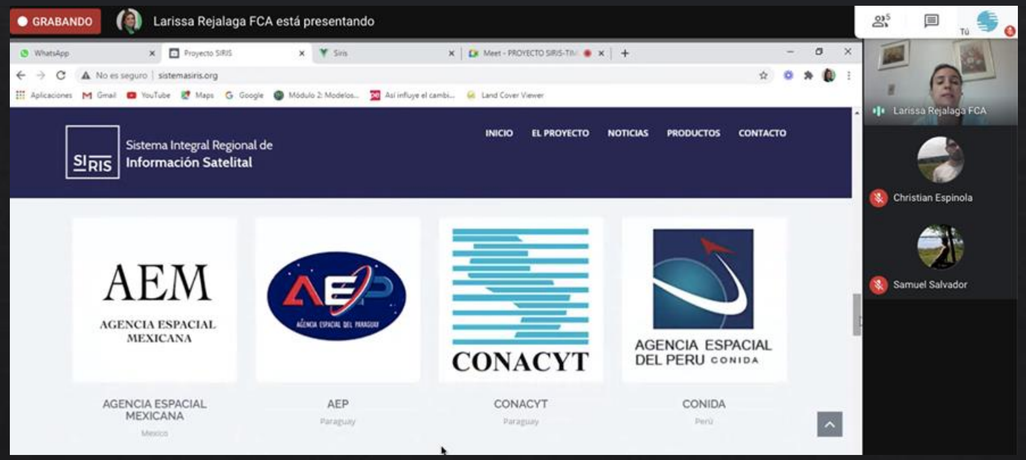



NASA
SPACE APPS
CHALLENGE
THE POWER OF TEN
10 SPACE AGENCIES
TO COMMEMORATE
10 YEARS OF #SPACEAPPS
JOIN US OCT 2-3, 2021
NASA
AEB
BRAZILIAN SPACE AGENCY
AGENCY LINKED TO THE MCTI
AEP
AGENCIA ESPACIAL DEL PARAGUAY
Australian Space Agency
CONAE
CSA ASC
esa
JAXA
NSSA
sansa
SOUTH AFRICAN NATIONAL SPACE AGENCY

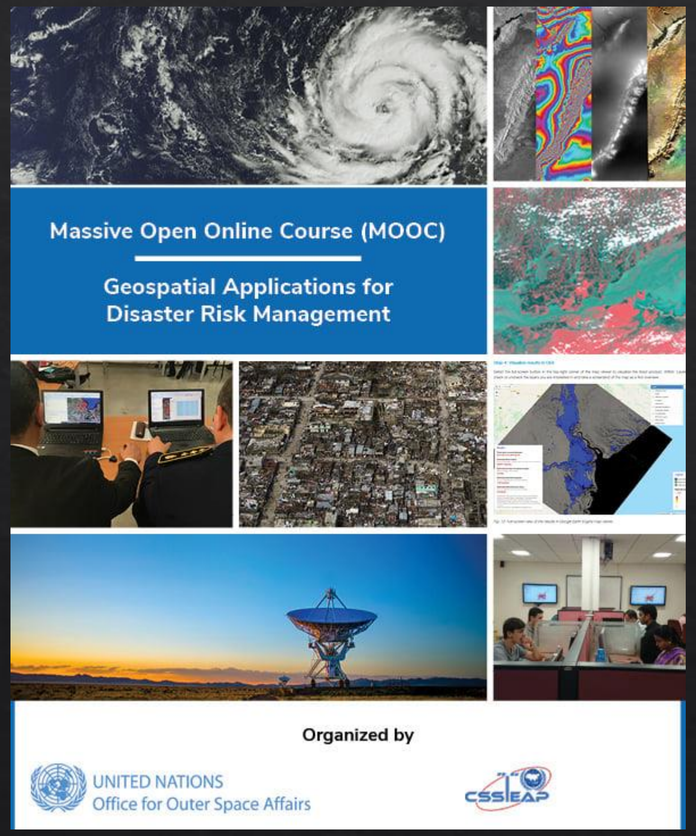
SIRIS PROJECT PARTICIPATION
8 COUNTRIES

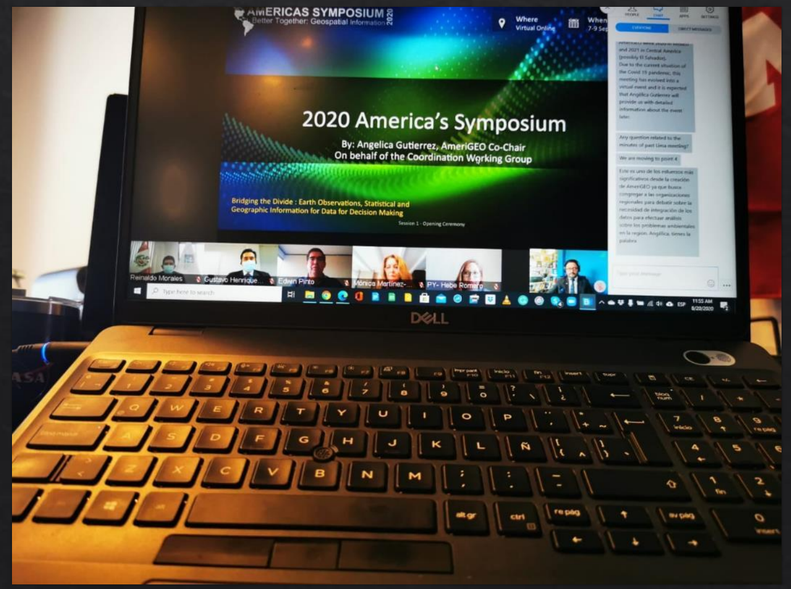






PARTICIPATION ACTIVITIES DISASTER RISK REDUCTION UNSPIDER/GEO/Amerigeo





PARTICIPATION SUB-COMMITTEE OF TECHNICAL AND SCIENTIFIC AFFAIRS OF COPUOS-UNOOSA

UNITED NATIONS
Committee on the Peaceful Uses of Outer Space

ACTIVE PARTICIPATION IN IAF

Committee Member

- Space Education and Outreach (SEOC)
- Near Earth Orbit (NEO)
- Administrative Committee Developing Countries and Emerging Nations (ACDCEN)

ACTIVE PARTICIPATION IN IAA

- Elected as Academician Full Member of the International Academy of Astronautics
- Stem/STEAM for Space Study Group Member
-

The list of New Members of the International Academy of Astronautics (IAA), for the year 2020, is available below:

Corresponding Members Basic Sciences
Antonietti Nicolo, Italy
Campos Luis Braga, Portugal
Grundy William M., USA
Olkin Catherine B., USA
Saito Yoshifumi, Japan
Shustov Boris M., Russia
Spencer John R., USA
Wu Shufan, China
Yankiv-Vitkovska Liubov, Ukraine

Members Basic Sciences
Al-Shidhani Saleh, Oman
Bykov Andrei M., Russia
Grebenev Sergey A., Russia
Kaymaz Zerefsan, Turkey
Li Xuelong, China
Squyres Steven W., USA
Takahashi Tadayuki, Japan
Tong Xudong, China
Turyshev Vyacheslav, Russia

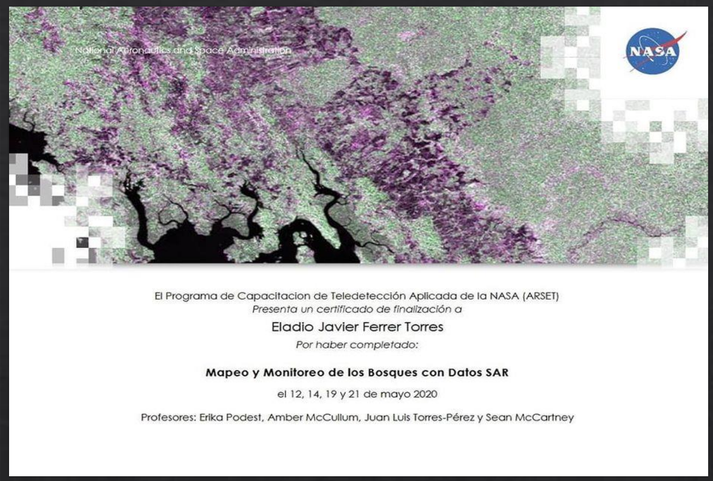
Members Social Sciences
Al Ahbabi Mohammed, UAE
Bezos Jeffrey, USA
Clerc Philippe, France
Gitsch Michaela, Austria
He Zhibin , China
Imhof Barbara, Austria
Krishna Murthy Yelisetty V., India
Medina Tanco Gustavo, Argentina
Roman Molinas Alejandro J., Paraguay
Szaniawski Michal, Poland
Usov Volodymyr, Ukraine
Wang Xiaojun, China
Wang Qiao, China
Wang Tianyi, China
Yu Tao, China
Zhuao Xiaojin, China
Zinoviev Oleksii, Ukraine

ACTIVE PARTICIPATION WITH THE PDC

TRAINING

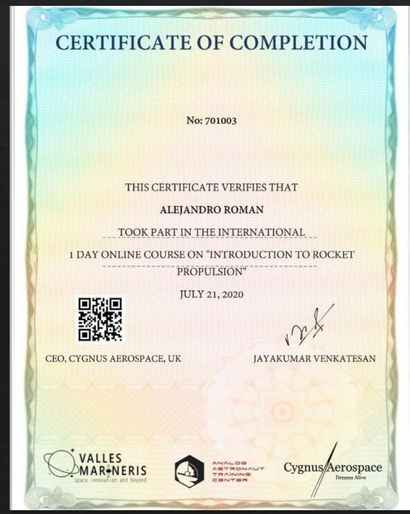

VERIFIED
CERTIFICATE of ACHIEVEMENT
HarvardX
This is to certify that
Alejandro Roman
successfully completed and received a passing grade in
GSE2x: Leaders of Learning
a course of study offered by HarvardX, an online learning initiative of Harvard University.
Richard Elmore
Gregory R. Anrig Research Professor of Educational Leadership
Harvard University
edX
VERIFIED CERTIFICATE
Issued 29 de agosto de 2020
VALID CERTIFICATE ID
de0dad82faa941fe9f71c87f43dc018c

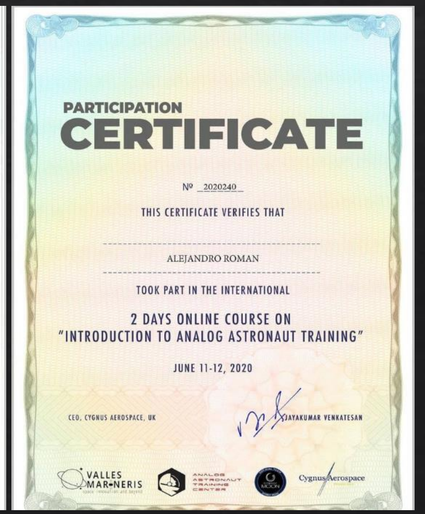

VERIFIED
CERTIFICATE of ACHIEVEMENT
MITx
This is to certify that
Alejandro Roman
successfully completed and received a passing grade in
16.00x: Introduction to Aerospace Engineering: Astronautics and Human Spaceflight
a course of study offered by MITx, an online learning initiative of the Massachusetts Institute of Technology.
Jeffrey A. Hoffman
Professor of the Practice of Aerospace Engineering
Department of Aeronautics and Astronautics
Massachusetts Institute of Technology
Krishna Rajagopal
Dean for Digital Learning
Massachusetts Institute of Technology
edX
VERIFIED CERTIFICATE
Issued 9 de julio de 2020
VALID CERTIFICATE ID
81d85501df17484c9c947445153eaba0

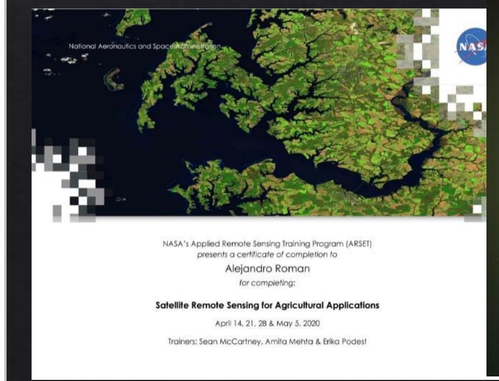

National Aeronautics and Space Administration
NASA
El Programa de Capacitacion de Teledetección Aplicada de la NASA (ARSET)
Presenta un certificado de finalización a
Eladio Javier Ferrer Torres
Por haber completado:
Mapeo y Monitoreo de los Bosques con Datos SAR
el 12, 14, 19 y 21 de mayo 2020
Profesores: Erika Podest, Amber McCullum, Juan Luis Torres-Pérez y Sean McCartney

+


CaePro
xpertGIS
CERTIFICADO
INTRODUCCIÓN A
ArcGIS
otorgado a
SILVIO RODRIGO FLEYTAS GONZÁLEZ
Este curso comprendió tanto sesiones teóricas como prácticas, completando un total de 20 horas, enfocados en el fortalecimiento de las habilidades en torno al manejo de la herramienta informática ArcGis.
Por cuanto;
Para que conste y sea reconocido, se le otorga el presente Certificado en calidad de aprobado con una nota de 14 o superior a esta.
Lima, 11 de agosto de 2020.
ABP
MÉTODO
CAEPRO
Geo. Luz Alexandra Javier Silva
Directora TIG


CERTIFICATE OF COMPLETION
No: 701003
THIS CERTIFICATE VERIFIES THAT
ALEJANDRO ROMAN
TOOK PART IN THE INTERNATIONAL
1 DAY ONLINE COURSE ON "INTRODUCTION TO ROCKET PROPULSION"
JULY 21, 2020
CEO, CYGNUS AEROSPACE, UK
JAYAKUMAR VENKATESAN
VALLES MARINERIS
Cygnus Aerospace


PARTICIPATION
CERTIFICATE
№ 2020240
THIS CERTIFICATE VERIFIES THAT
ALEJANDRO ROMAN
TOOK PART IN THE INTERNATIONAL
2 DAYS ONLINE COURSE ON
"INTRODUCTION TO ANALOG ASTRONAUT TRAINING"
JUNE 11-12, 2020
CEO, CYGNUS AEROSPACE, UK
JAYAKUMAR VENKATESAN
VALLES MARINERIS
Cygnus Aerospace


National Aeronautics and Space Administration
NASA's Applied Remote Sensing Training Program (ARSET)
presents a certificate of completion to
Alejandro Roman
for completing:
Satellite Remote Sensing for Agricultural Applications
April 14, 21, 28 & May 5, 2020
Trainers: Sean McCartney, Amita Mehta & Erika Podest

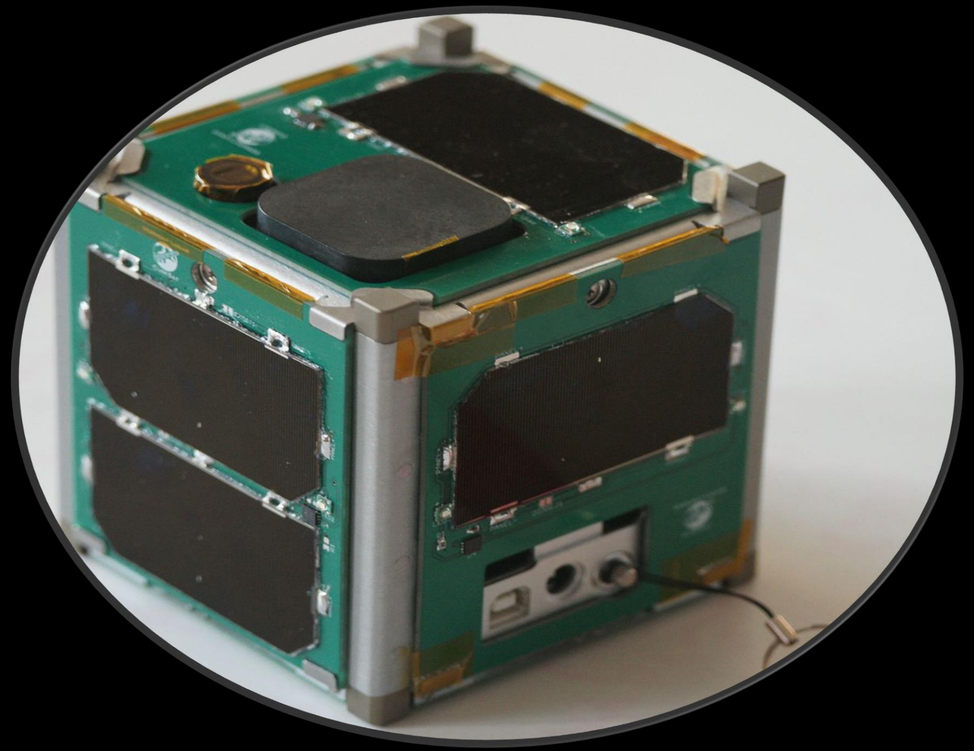

Graduate
Certificate
№ 3703333
THIS CERTIFICATE VERIFIES THAT
Alejandro ROMAN
SUCCESSFULLY COMPLETED
THE INTERNATIONAL
ONLINE CERTIFICATE PROGRAM
INTRODUCTION TO ROCKET
AND SATELLITE ENGINEERING

WORKING WITH INSTITUTIONS

- NATIONAL EMERGENCY SECRETARY
- INFONA
- MADES
- WWF
- NATIONAL UNIVERSITY OF ASUNCION
- UNIVERSITY OF THE PACIFIC
- IPTA
- SENEPA
- PETROPAR
- UNDP
- CEDIC
- SCIENTIFIC SOCIETY OF PARAGUAY
- OTHER

Aerospace Development

- Basic Space Engineering

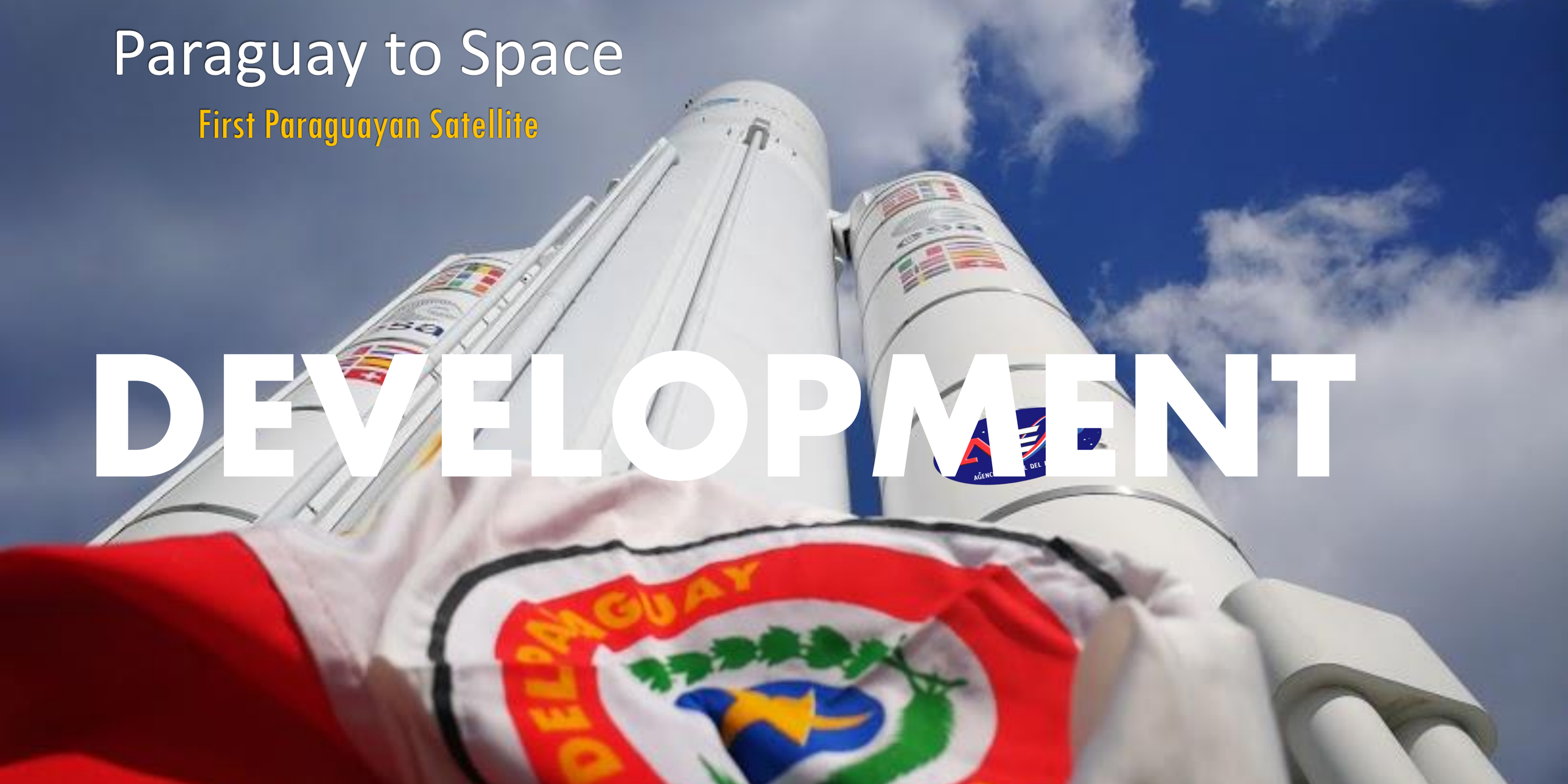


Paraguay to Space

First Paraguayan Satellite

Paraguay to Space

First Paraguayan Satellite



DEVELOPMENT


GUARANISAT - 1
BIRDS-4
AEP
2020

Why CubeSat?

CREDITO:NASA

March 2018

IRAZU – The Costa Rica Case

Primer satélite tico al espacio

‘Estoy impresionado con el equipo costarricense’

Mengu Cho, director del Laboratorio de Ingeniería Espacial del Instituto Tecnológico de Kyushu (Kyutech), asesora el proyecto Irazú, de Costa Rica

áreas como ingeniería mecánica, eléctrica e ingeniería en materiales, entre otros, pues el objetivo es poner a funcionar un sistema.

--- ¿En qué consiste la colaboración de Kyutech?

--- Nos vamos a encargar de las pruebas y el lanzamiento. El satélite se pondrá en órbita desde Kibo, el módulo japonés de la Estación Espacial Internacional. Por esa razón, a finales de junio firmamos un acuerdo con la Agencia Japonesa de Exploración Aeroespacial (JAXA) y ya el proyecto Irazú está su cronograma de lanzamientos. Pero antes tenemos que asegurarnos de que el satélite cumpla con todos los requerimientos de seguridad y que no pondrá en riesgo a los astronautas de la Estación Espacial. También se dará capacitación especializada a estudiantes costarricenses que serán los encargados de realizar las pruebas.

--- ¿Qué le diría usted a algunas personas que han minimizado la importancia del proyecto por ser un satélite pequeño?

--- Cualquier proyecto grande comienza con algo pequeño. Lo más importante de un proyecto como Irazú es que no solo se lanza un satélite, sino que existe una estrategia de formación de jóvenes ingenieros que podrán seguir desarrollando otras misiones.

"El objetivo es que sea un programa sostenible a largo plazo, de modo que sí se podría generar un proyecto Irazú II, III o más". ■

14A ALDEA GLOBAL DOMINGO 24 DE JUNIO DEL 2018 LA NACIÓN

Andrea Solano B.
asolano@nacion.com

ENTREVISTA

El experto en aeronáutica Mengu Cho, es el director del Laboratorio de Ingeniería Espacial del Instituto Tecnológico de Kyushu (Kyutech), en Japón, y visitó Costa Rica con el fin de hacer una revisión del diseño del proyecto Irazú, el primer satélite costarricense que será lanzado al espacio.

El Kyutech y la Asociación Centroamericana de Aeronáutica y del Espacio (ACAE), entidad desarrolladora de la iniciativa, firmaron un convenio de cooperación de modo que dicha universidad japonesa se encargará de las pruebas, las certificaciones y el lanzamiento del satélite.

El laboratorio posee equipos de simulación e interacción de ambientes espaciales con aeronaves y dispositivos satelitales los cuales podrán ser utilizados por los expertos ticos que trabajarán en las pruebas del satélite.

El proyecto Irazú se fabricará con tecnología CubeSat, y será un cubo que mide 10 centímetros

> “Lo más importante es que el equipo tenga la convicción de que va a triunfar sin importar lo que suceda”.

de cada lado y pesa cerca de un kilogramo. Su misión será realizar mediciones del crecimiento de los árboles y la fijación de carbono en relación con algunas variables meteorológicas.

Este es un extracto de la conversación que el ingeniero japonés concedió a *La Nación*.

--- Después de hacer la revisión del diseño del satélite, ¿cuál es su análisis?

--- Puedo decir que por ahora, el proyecto va bien. El siguiente paso es comprar los componentes que hacen falta para ensamblarlo y ponerlo a trabajar. Es un reto.

--- ¿Cuál es su opinión sobre el desempeño del equipo de profesionales costarricenses involucrados en el proyecto?

--- Estoy impresionado con el equipo, pues tiene una enorme voluntad para lanzar el satélite al espacio. La tecnología para construir estos aparatos está disponible, pero lo más importante es que el equipo tenga la convicción de que va a triunfar sin importar lo que suceda. Durante el proceso, van a estar sometidos a mucha presión para cumplir con el cronograma y es necesario tener suficiente fortaleza psicológica.

--- ¿Está muy extendido el uso de los CubeSats en el mundo?

--- Creo que son cerca de 10 países los que han ingresado al sector aeroespacial por medio de la tecnología de los CubeSats. En América Latina, Ecuador y Perú ya han lanzado los suyos. El proyecto Irazú será el primero de Costa Rica y de Centroamérica. Considero que lo más importante de participar en el diseño, construcción y lanzamiento de un satélite como estos, es la oportunidad que tienen los estudiantes de poner en práctica sus conocimientos en

July 2018

With Prof. Mengu CHO

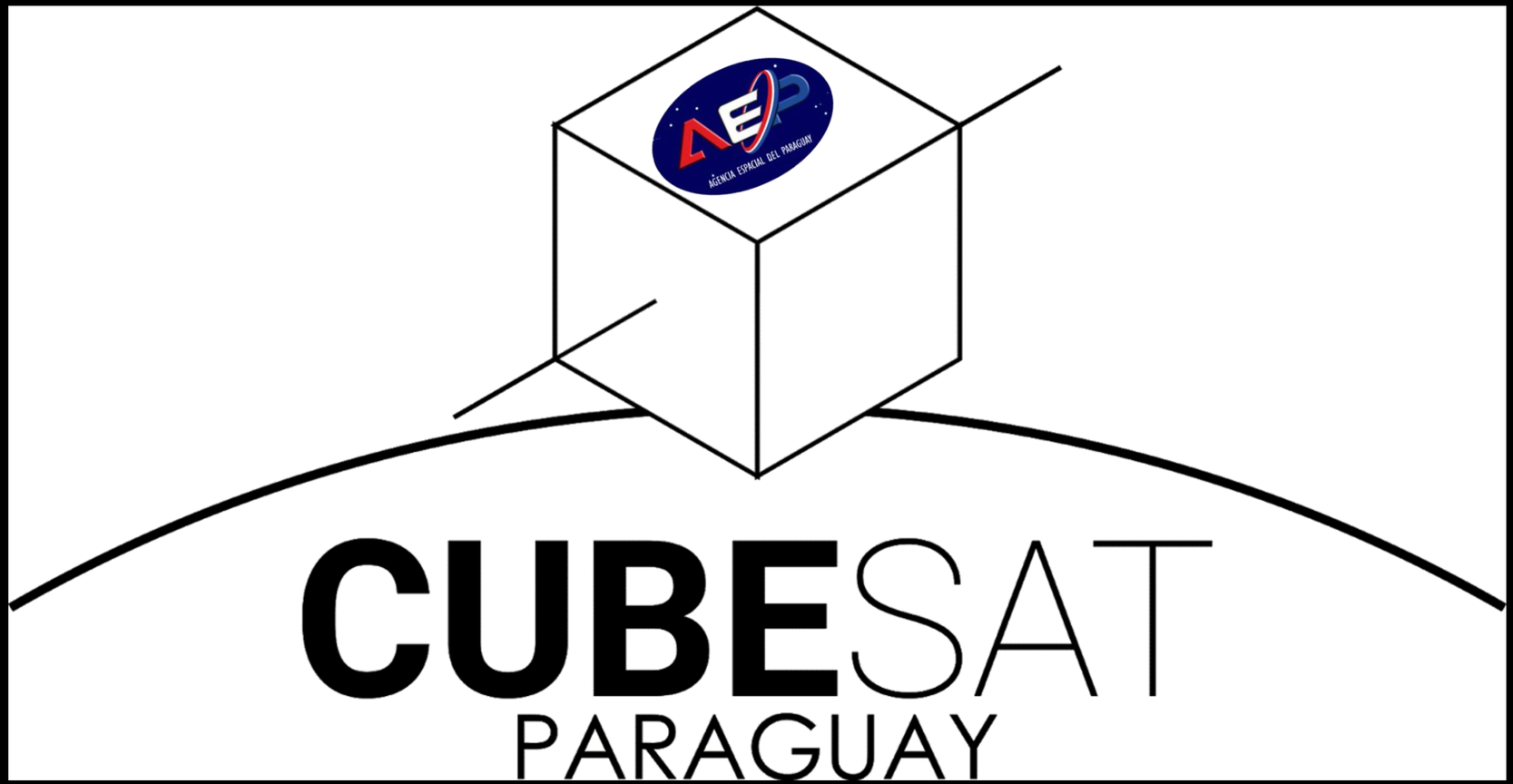
Kyushu Institute of Technology - Kyutech responsible for the development of low-cost satellites for emerging countries in space.

July2018

With Prof. Mengu CHO
Kyushu Institute of Technology - Kyutech

UNISPACE+50

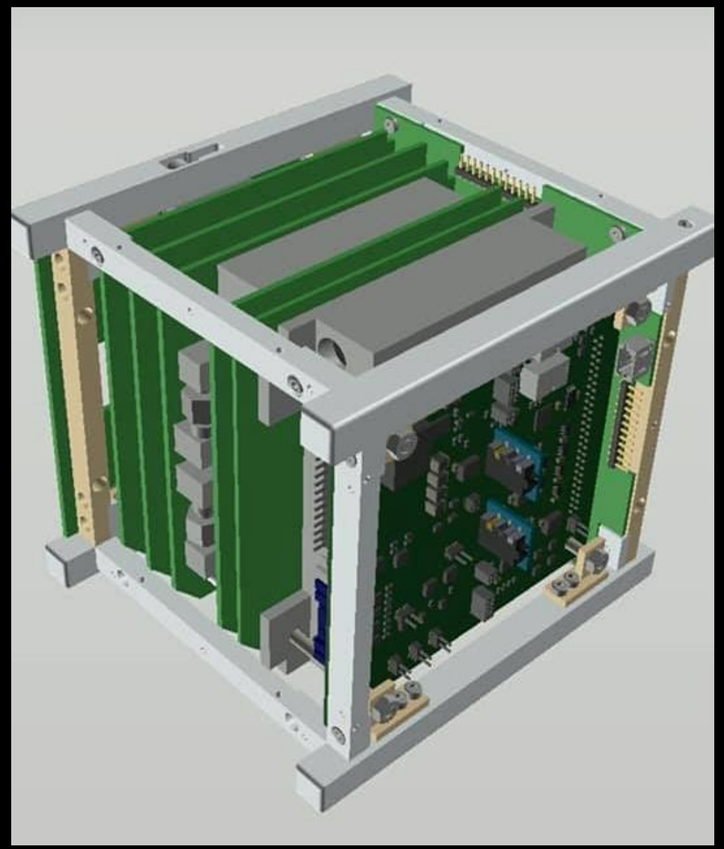
October 2018



March 2019

March to September 2019

From Design to Engineering Model (EM)



CREDIT: ADOLFO JARA

September 2019

TRAINING

September 2019-February 2020

Flight Model (FM)

CREDIT: ANIBAL MENDOZA

26. BIRDS-4: Remote sensing application for the study of insect dispersion

Remote Sensing Application for the Study of Insect Dispersion

Adolfo Jara
BIRDS-4
March 7, 2019

g Application for the Study of Insect Dispersion

odels allow velopment of ow sampling its. Problems iseases are lterations in r appearance, decrease or pearance. In he statistical istribution of epidemiology s a case study e vector of indigenous Chaco.

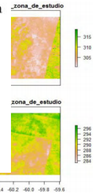
The work area for the development of this research is located in the central Chaco, approximately 400 km from Asunción, zone of influence of indigenous communities.

Representation of the study area - Elaborated using Google Earth Engine.

To determine the distribution, two main variables have been considered: the entomological variable (presence of Chagas disease vectors in the indigenous communities) and the environmental variables. For the entomological variable a total of 110 points of presence of the vector have been taken through manual collect of insects and the use of a real-time remote monitoring system for triatomine using traps with sensors wireless networking. For environmental variables were used: mean NDVI, mean temperature, maximum temperature and mean rainfall, all these derived from satellite images and obtained through the programming of a code written in java script in the Google Earth Engine.

Application for the Study of Insect Dispersion

similarity with the of known common predict the climatic



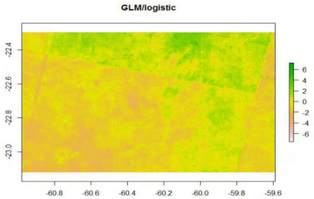
Prediction variables – Elaborated using RStudio.

The methodology used is described below:

- The presence locations of the vector were collected;
- The values of the environmental prediction variables (such as climate) were extracted for these places using the spatial databases;
- Environmental values were used to adjust a model that allows estimating the similarity of other sites with presence sites;
- A model was obtained that allows to predict the distribution of vectors in the region of interest.

As a result, a distribution model based on environmental variables has been obtained that predicts the suitable places for the studied triatomines to be present.

The obtained tool is able to serve for the ecological and epidemiological surveillance of the indigenous communities at risk, generating early warning systems and serving as a support to the authorities for decision making.



Map of suitability values – Elaborated using RStudio.

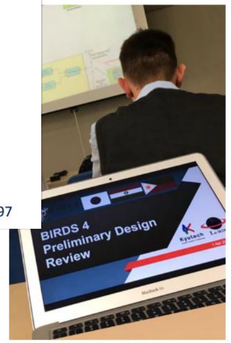
16. BIRDS-4: Preliminary Design Review

BIRDS-4 Preliminary Design Review (PDR) Presentation

Reported by
Anibal Mendoza & Yasir Abbas
BIRDS-4
APRIL 7, 2019

RDS-4 PDR

n By: Anibal Mendoza



From the seminar room during PDR

Date and location:
13:20 – 18:00,
1 April 2019.

Seminar Room of the 4th floor of S2 Building at Kyushu Institute of Technology, Tobata Campus, Japan

What is PDR?

The PDR demonstrates that the preliminary design meets all system requirements with acceptable risk and within the cost and schedule constraints and establishes the basis for proceeding with detailed design. It will show that the correct design options have been selected, interfaces have been identified, and verification methods have been described [source].

PDR started with the introduction given by Izrael Bautista, followed by the explanation of each mission and subsystem presentations made by members of BIRDS-4 team.

DR

doza

ended by almost m, Prof. Cho and addition to some members of BIRDS-1, -2 and -3 teams.

Present audience asked many questions and gave comments on the presentations, after each subsystem or mission is explained by its responsible member.

The clock was ticking, and because of this, Prof. Cho started to focus more on the differences with other BIRDS projects, since it was already beyond the scheduled time for the PDR to end. Hence, we moved on quickly as it got close to the end.

AGENCIA ESPACIAL DEL PARAGUAY

CREDIT: KYUTECH

Launch

CREDITO:UNIVERSIDAD DE VIRGINIA

20 February 2021

India

Credit: NASA


Crew-1 Dragon
Cygnus-15
Soyuz MS-17
Progress 77
Progress 75


Talking: Alejandro Román
Paraguay TV

22 February 2021

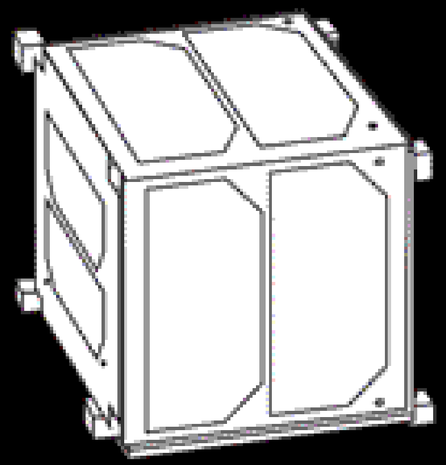
CREDITO::NASA


14 March 2021

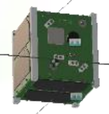
Space Segment

CREDITO:UNIVERSIDAD DE VIRGINIA

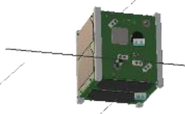
Cubesat 1U - Construction



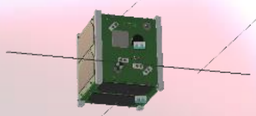
CREDITO:UNIVERSIDAD DE VIRGINIA



GuaraniSat-1



Tsuru



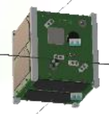
Maya-2

BIRDS PROJECT

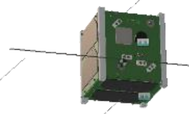
- Take the first step towards creating an indigenous space program by designing, building, testing, launching and operating the first satellites for participating nations.
- BIRDS – 4
- Build the first Paraguayan satellite while improving the standardized bus system for future missions and continuing the development of satellites from Japan and the Philippines, and previous MISSIONS OF BIRDS-1, 2 and 3.

This work was supported by JSPS Core-to-Core Program, B. Asia-Africa Science Platforms.

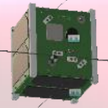
CREDIT; KYUTECH



GuaraniSat-1



Tsuru

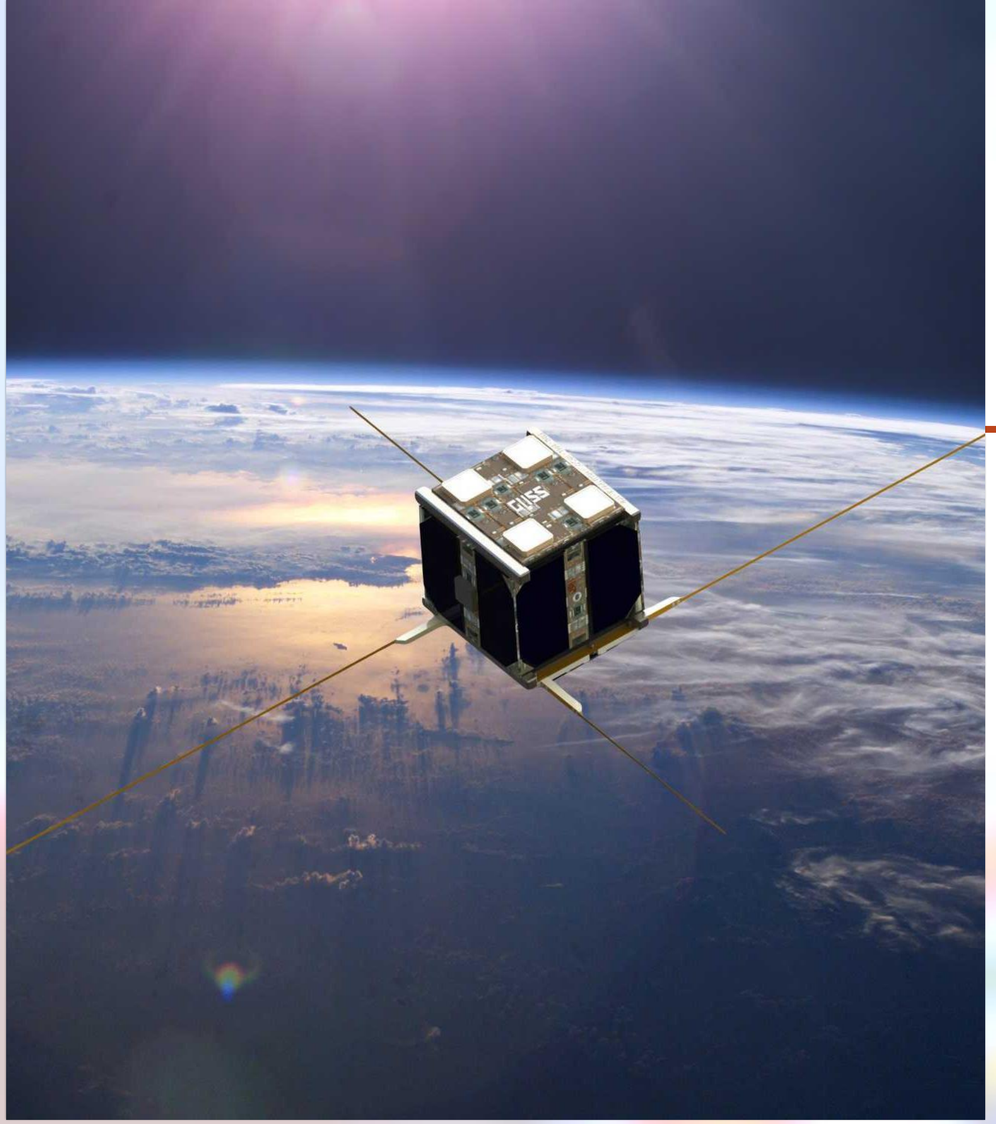


Maya-2

CREDIT; KYUTECH

PROYECTO BIRDS

- The most important objective of this mission is CAPACITY BUILDING for our country, having Paraguayan engineers the opportunity to access a Doctorate and Master in Space Engineering in Japan and lay the foundations for the creation of undergraduate and postgraduate programs in our country and the construction of the following satellites in Paraguay.



MAIN OBJECTIVES

1. Design, build, test, launch and operate Paraguay satellite

2. Give continuity to two missions; Imaging Mission (CAM) and Store & Forward (SF-WARD)

3. Serve the amateur radio community with the APRS-Digipeater (APRS-DP) mission

Secondary objective(s)

1. Demonstrate active in-orbit control and attitude stabilization (ADCS)

2. Demonstrate Perovskite Solar Cells in Space (PSC)

3. Demonstrate the structure of CubeSat as an antenna (HNT)

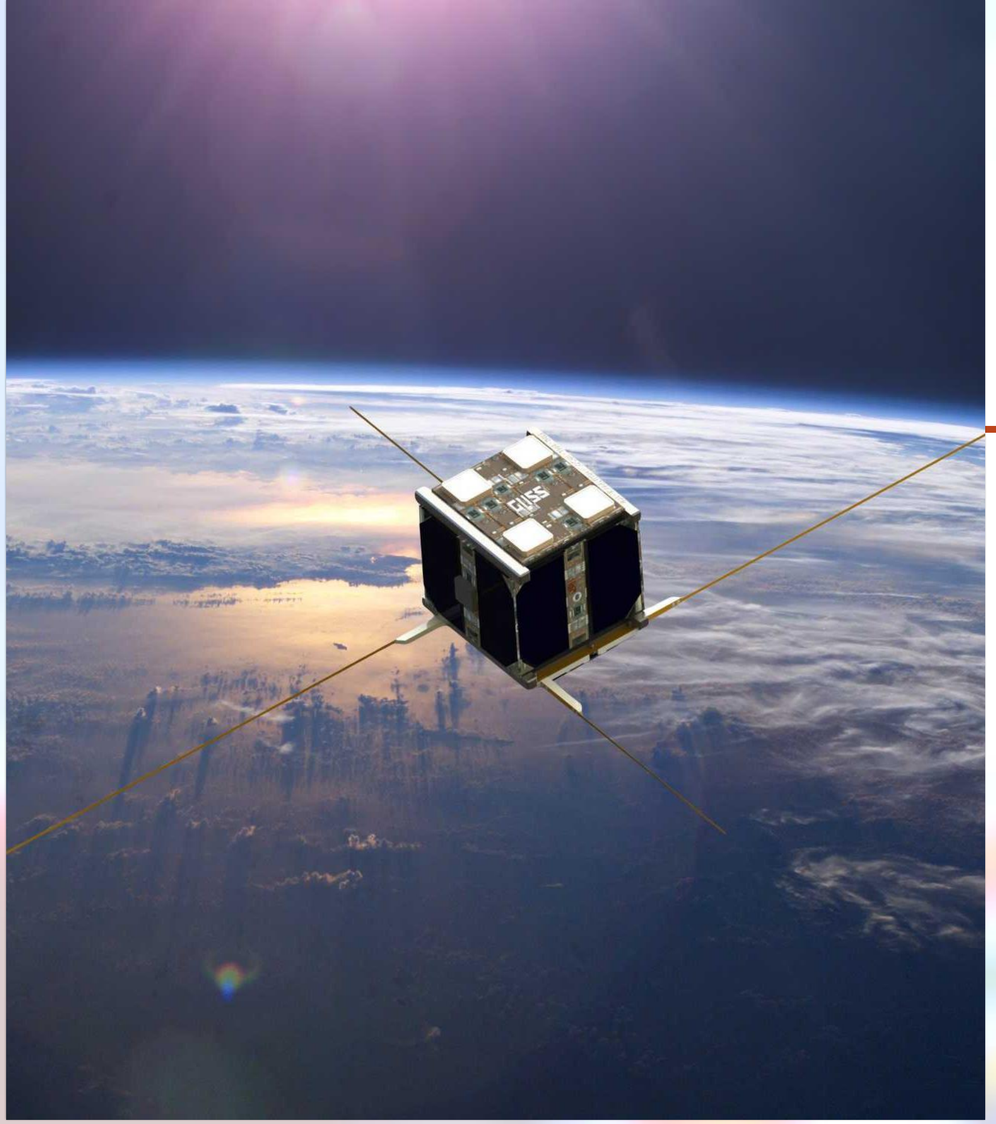
4. Expand the database of COTS components useful in space applications (TMCR)

5. Demonstrate the functionality of the chip manufactured for hitch detection (NTU)

6. Demonstrate on-board image processing and classification (UCI)

7. Demonstrate the viability of COTS glue for solar cells (GLU)

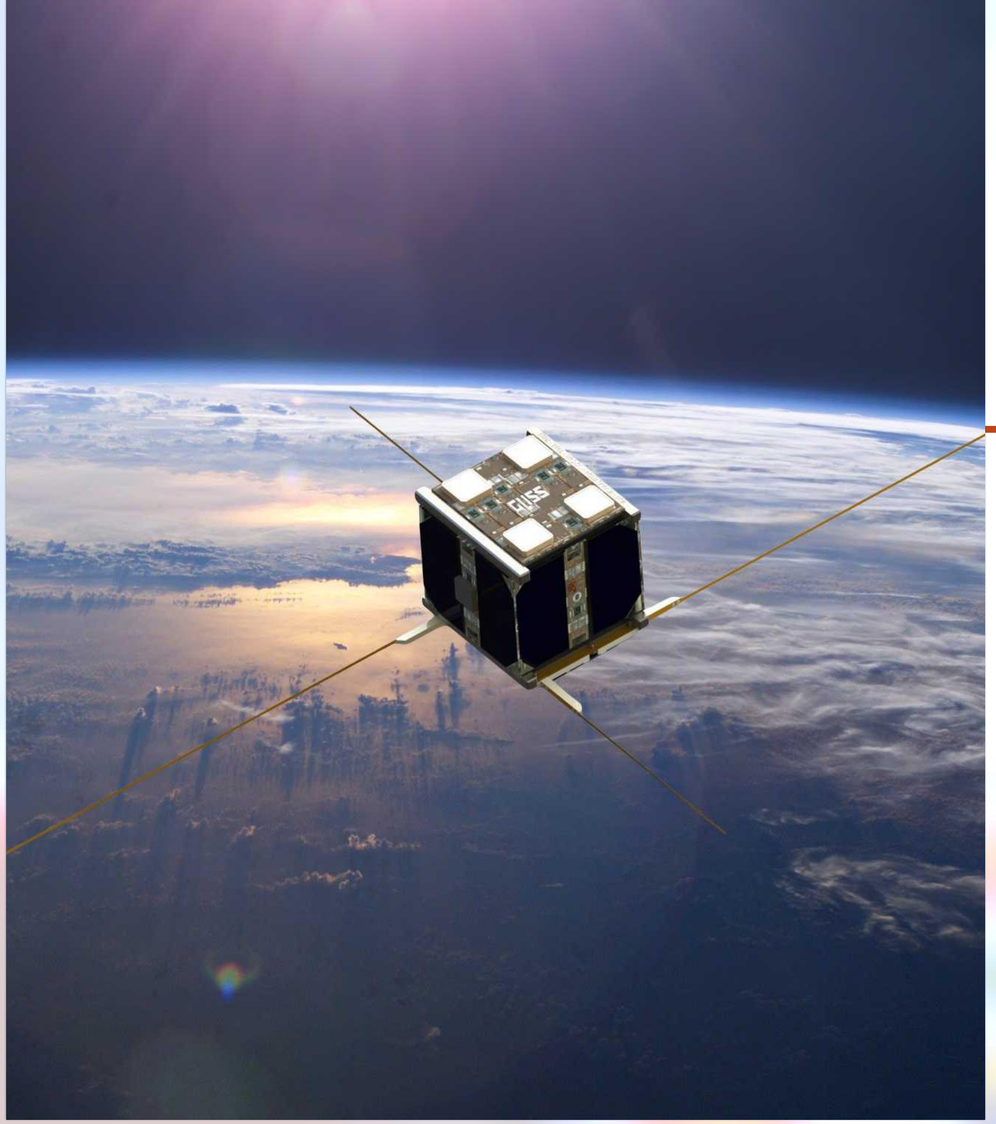
PARAGUAY AL ESPACIO
CREDIT; KYUTECH



CREDIT; KYUTECH

SPACE SEGMENT

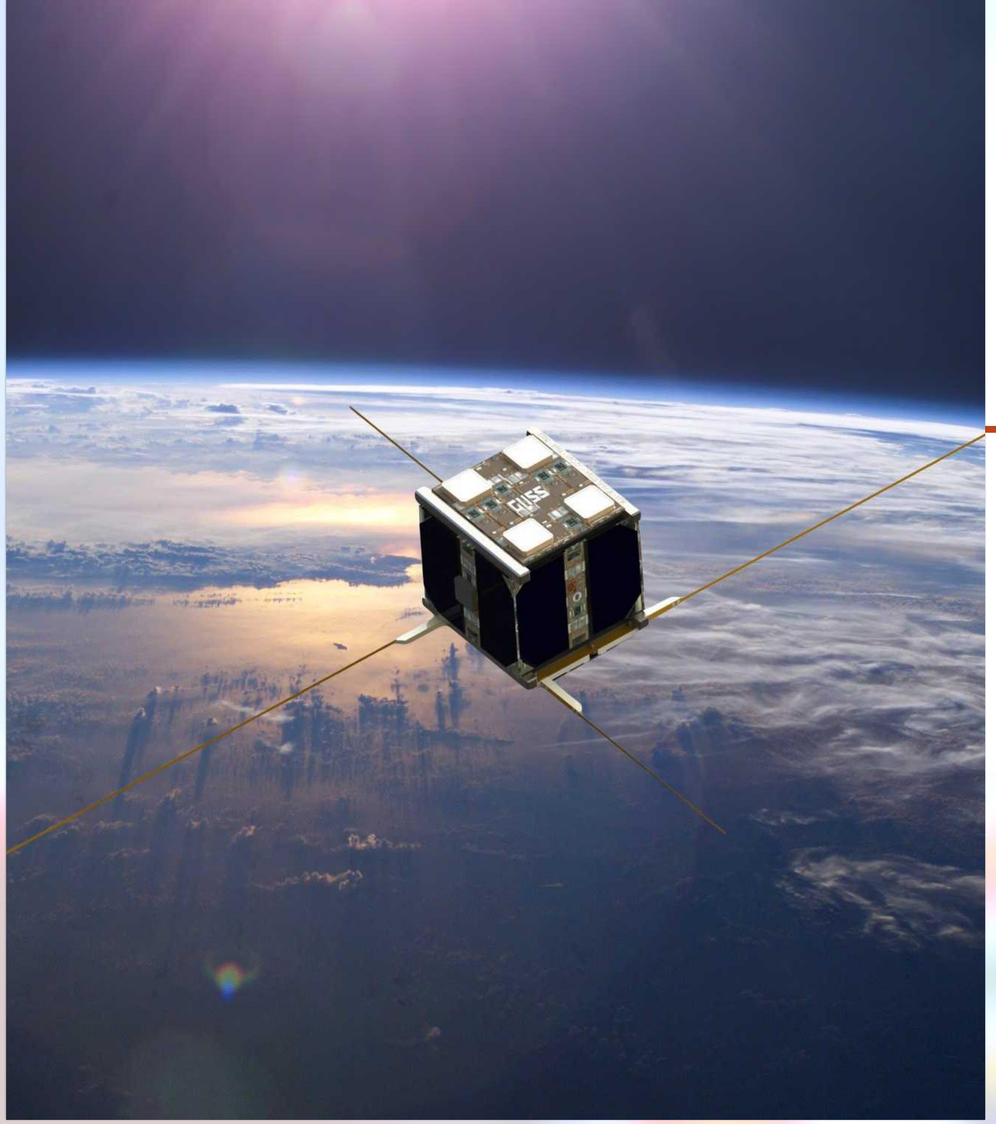
- The Space segment is composed of 3 identical satellites from Paraguay, Japan and the Philippines.
- They will be launched at the same time by JAXA with a launch service provider to define the strongest options are from usa (SpaceX) or Japan.
- The satellite can be divided into subsystems and missions.



MAIN SUBSYSTEMS

- OBC – On-Board Computer Subsystem – executes commands from the GS, Collects and transmits mission and telemetry data, monitors the overall status of the Satellite and executes commands automatically*
- EPS – Electric Power Subsystem – provides uninterruptible power supply to all components both in sunlight and in eclipse. Generates, stores, converts and distributes energy
- COM – Communications Subsystem – receives the commands (uplink) from the GS and forwards to the OBC, Transmits telemetry and mission data to the GS (downlink) and the CW beacon.

CREDIT; KYUTECH

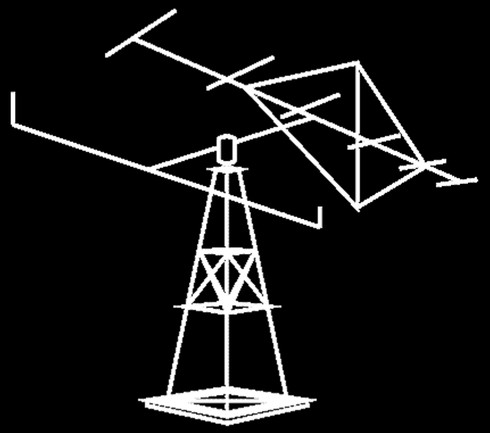


CREDIT; KYUTECH

MAIN MISSIONS

- Camera (CAM)
- Image Classification Unit (ICU)
- Automatic packet repetition system: - Digital repeater (APRS-DP)
- Data storage and forwarding (weather and Re-infestation data) using CubeSats (SF-WARD)
- Housing as Antenna (HNT)
- Measurement of Total Ionizing Doses in Components (TMCR)
- NTU Mission (Latch-up Detection Chip) (NTU)
- Perovskite Solar Cell (PSC)
- Attitude Determination and Control (ADCS)
- Mission of verif. Of glue COTS (GLUE)

Ground Segment



CREDITO:UNIVERSIDAD DE VIRGINIA

Fuentes:

OMS, 2015
Rojas de Arias et al., 2012
Tesis de Maestría de Federico Gaona, FP-UNA, Octubre 2018

Aerospace Development

- Infrastructure

Photo Credit: Donald Giannatti on Unsplash

GROUND SEGMENT

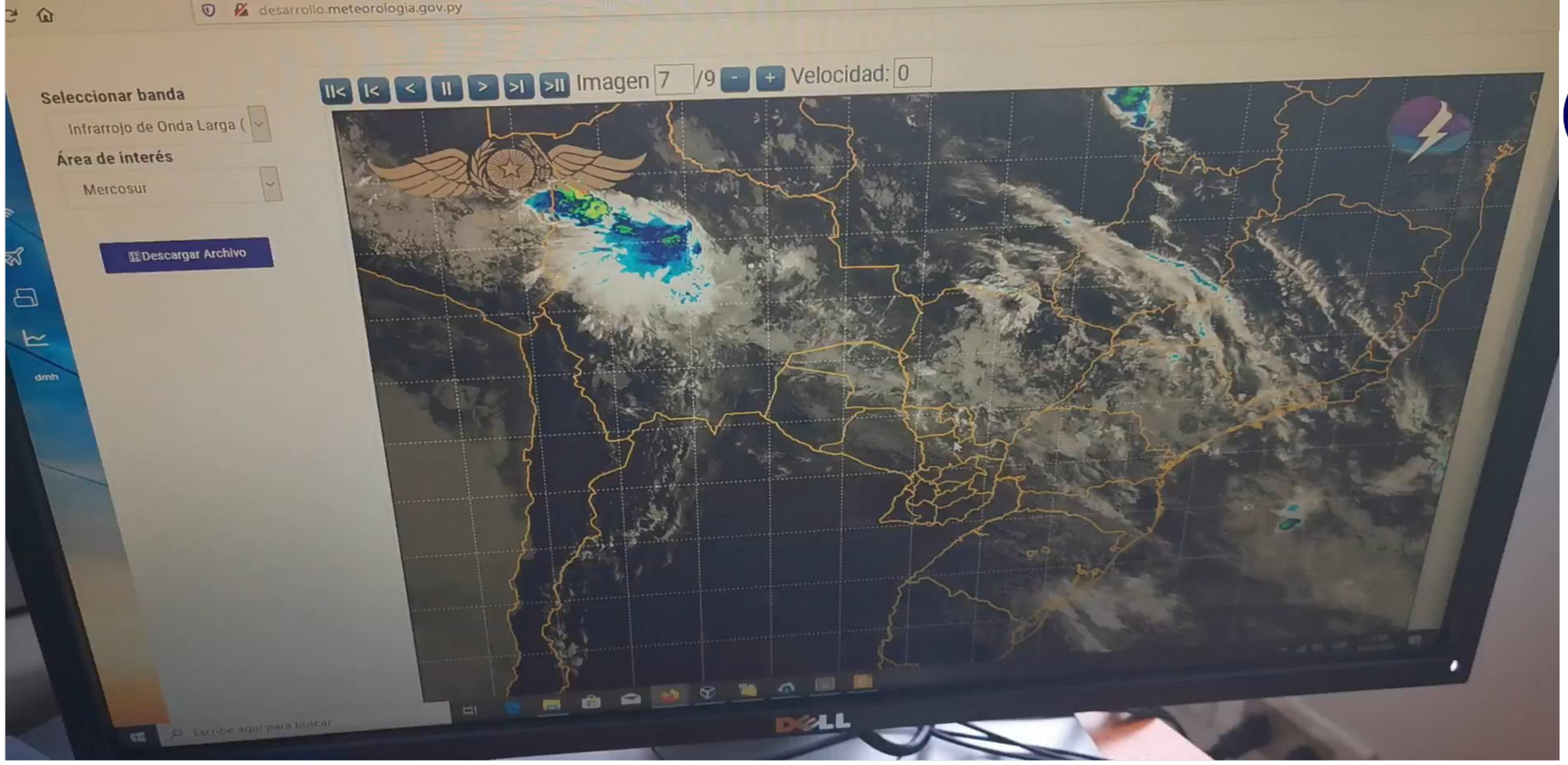
- OPERATIONS CENTER MONITORING AND CONTROL AEP HQ
- AEP CAMPUS CONTROL CENTER - A
- ESTACION TERRENA 1 CAMPUS - UNA
- ESTACION TERRENA 2 TIBERIA – CHACO
-

OPERATIONS, MONITORING AND CONTROL CENTER – AEP HQ

Located at the headquarters of the AEP, its main function will be to monitor the GuaraniSAT-1 satellite, in addition to monitoring and supporting the SEN and other state and private agencies in case of disasters such as floods and fires.

Space debris and near-earth objects will also be actively monitored in case of alerts.

It will serve as the main monitoring station in coordination with the CONTROL CENTER of the UNA campus.



AEP CONTROL CENTER – CAMPUS UNA

Located on the CAMPUS of the UNA, its main function will be to communicate with the GuaraniSAT-1 satellite, in this place the Earth Station 1 is also installed.

GROUND STATION 1 AEP – CAMPUS ONE

Objectives

▪ Communication with the BIRDS-4.▪ Satellite Send commands and receive telemetry from each satellite

▪ Organize to make telemetry easy to use. ▪ Support communication missions of;

APRS-DP ▪ ▪ SF-WARD ▪ HNT

Installation

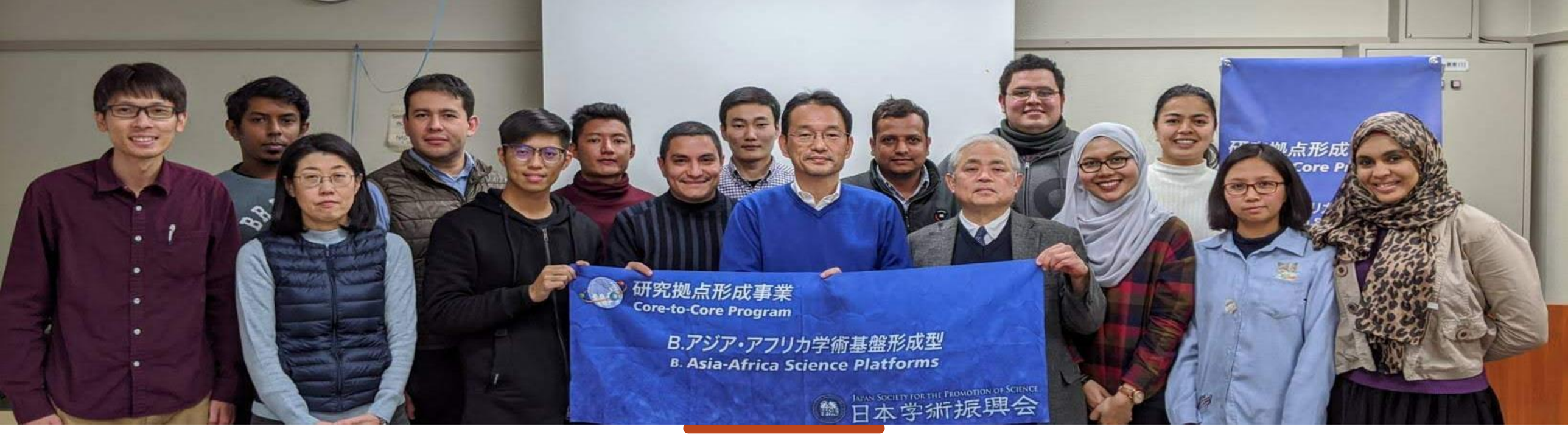
- Acquisitions
- Assembly
- Tests
- Operation

GROUND STATION 2 AEP – TIBERIA CHACO

Located 400 km from the city of Asunción in the town of Tiberia - Chaco

OBJECTIVES

- Collect information from traps that detect the presence of the Chagas disease vector
- Transmit information packets to the satellite automatically
- Trading in adverse conditions



GS WORKSHOP JAPAN ENE-2020

3 Paraguayan engineers were trained in Japan in order to carry out the installation tasks of the Earth Stations in Paraguay


Seminar room network
Access point

CHACO TRIP DEC 2020

GROUND SEGMENT

CHACO TRIP DEC 2020

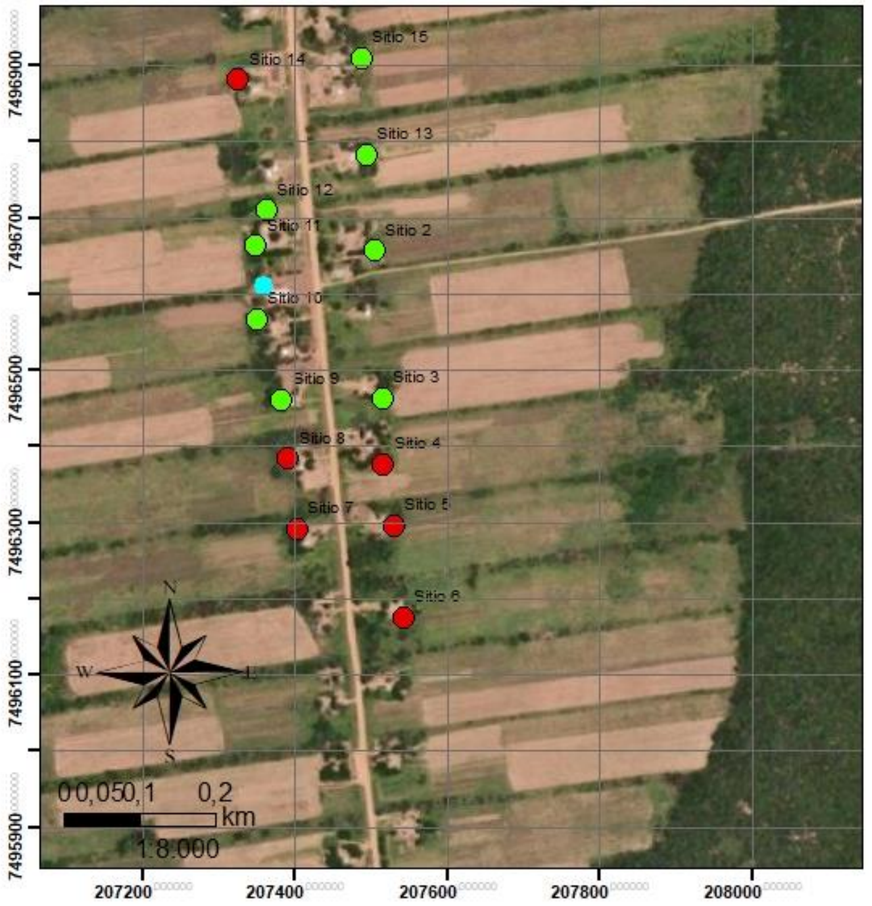
UBICACION DE SENSORES - GS2 CHACO

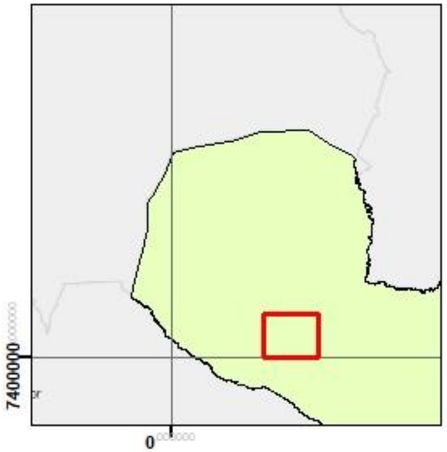
AGENCIA ESPACIAL DEL PARAGUAY

LEYENDA

- Comunicación con repetidor
- Comunicación directa
- Base

1	S 22° 37.184' w 59° 50.748'
2	S 22° 36.709' w 59° 50.714'
3	S 22° 36.814' w 59° 50.710'
4	S 22° 36.861' w 59° 50.710'
5	S 22° 36.905' w 59° 50.703'
6	S 22° 36.970' w 59° 50.697'
7	S 22° 36.906' w 59° 50.777'
8	S 22° 36.856' w 59° 50.783'
9	S 22° 36.814' w 59° 50.787'
10	S 22° 36.756' w 59° 50.805'
11	S 22° 36.704' w 59° 50.805'
12	S 22° 36.679' w 59° 50.796'
13	S 22° 36.641' w 59° 50.719'
14	S 22° 36.586' w 59° 50.816'
15	S 22° 36.572' w 59° 50.721'
16	S 22° 36.486' w 59° 50.738'
17	S 22° 36.427' w 59° 50.747'
18	S 22° 36.427' w 59° 50.747'
19	S 22° 36.378' w 59° 50.839'
20	S 22° 36.377' w 59° 50.763'



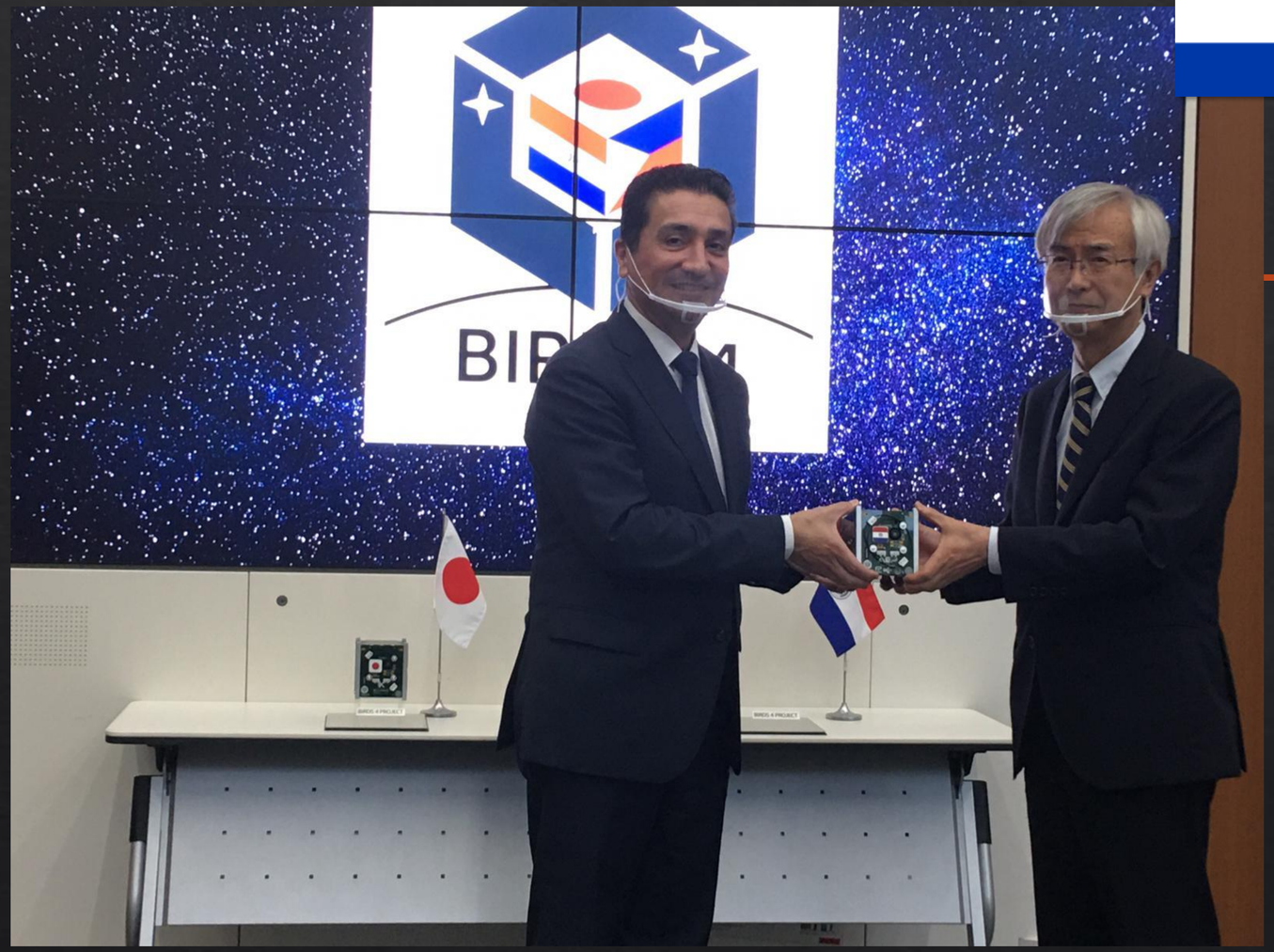


Descripción

En el siguiente mapa se observan los sitios donde serán ubicados los sensores para la detección de la vinchuca y el concetrador ubicado en la base donde se encontrará la estación terrena GS2 - Chaco

Este producto fue elaborado con técnicas digitales. No existe mapeo de precisión en este producto.
Derecho de Imagen: Mapa base Google Earth Pro
Elaborado el 15/12/2020 por la Agencia Espacial del Paraguay. (RFelytas@DST-DGEDA)

HANDOVER CEREMONY KYUTECH



#ORGULLO NACIONAL

CREDIT: KYUTECH-FOTO: MIGUEL MALDONADO

JAXA

Paraguay's First Satellite will be deployed from Kibo/ISS

Certificate of Acceptance for GuaraniSat-1

PARAGUAY
GuaraniSat-1

Manager of Utilization of KIBO Expose Facility,
JEM Utilization Center, Human Spaceflight Technology Directorate
Japan Aerospace Exploration Agency

JAPAN AEROSPACE EXPLORATION AGENCY

October 6, 2020

JAXA

International Space Station

JAXA

CERTIFICATE OF DEPLOYMENT

GuaraniSat-1

PROUDLY PRESENTED TO

Paraguayan Space Agency (AEP)

This is to certify that the satellite "GuaraniSat-1" was launched by NG-15, and it has successfully deployed from Kibo/ISS by JEM Small Satellite Orbital Deployer, J-SSOD.

JAXA

OGAWA Shiho

Director of JEM Utilization Center,
Human Spaceflight Technology Directorate

JAPAN AEROSPACE EXPLORATION AGENCY
Mar. 14, 2021

International Space Station

BIRDS4 TIMELINE

KICK OFF 4-OCT-18

PDR 1-ABR-19

FM ENE-2020

LANZ. A ISS 20 FEB 2021

MDR 28-DIC-

CDR 5-SET-19

HAND OVER JAXA 6 OCT 2020

PUESTA EN ORBITA 14-MAR 2021

Institutions involved

AGENCIA ESPACIAL DEL PARAGUAY

UNIVERSIDAD NACIONAL DE ASUNCION
VITAM IMPENDERE VERO
REPUBLICA DEL PARAGUAY
1889

CEDIC
CENTRO PARA EL DESARROLLO DE LA INVESTIGACIÓN CIENTÍFICA

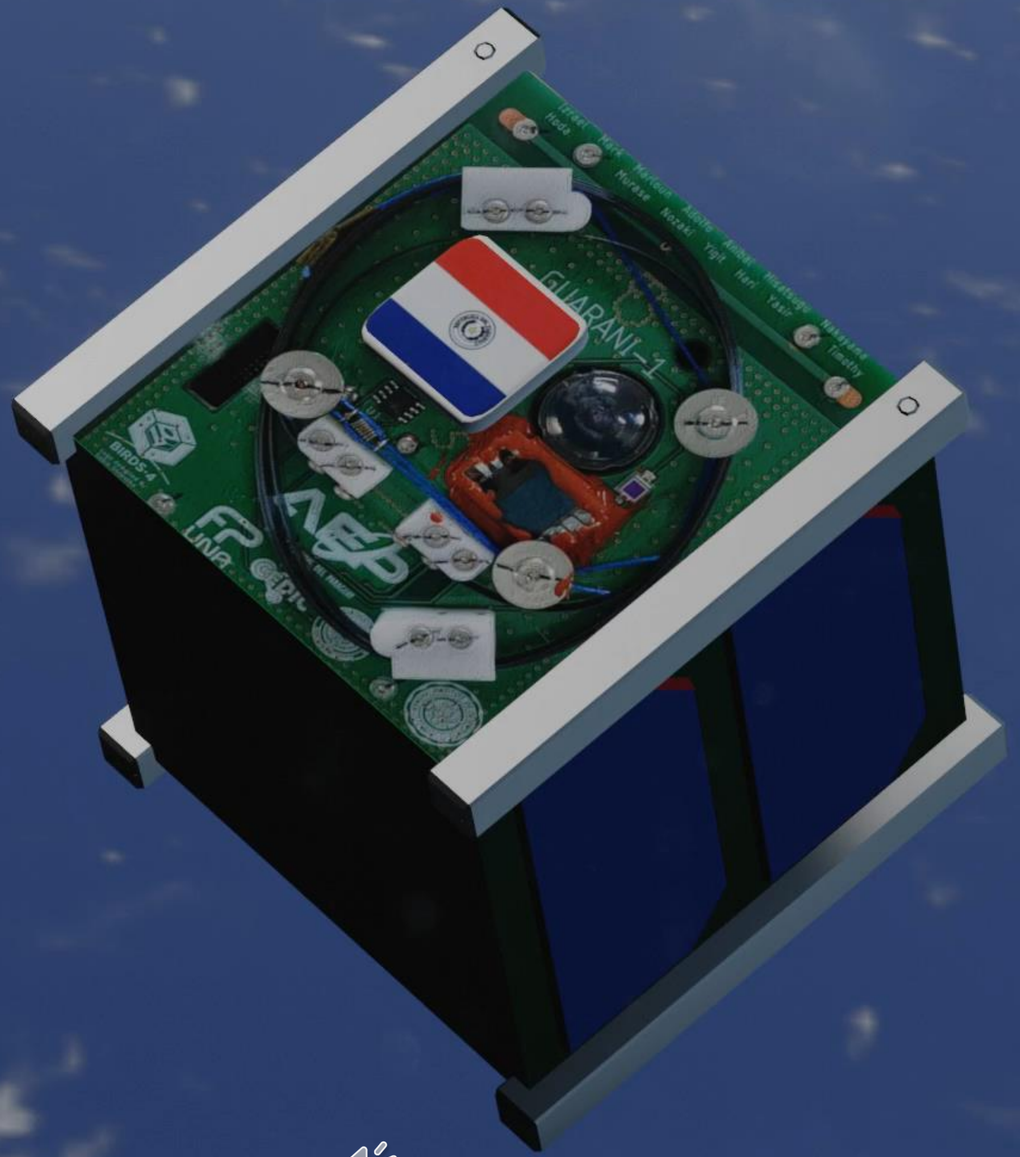
SCP
SOCIEDAD CIENTÍFICA DEL PARAGUAY

Kyutech
Kyushu Institute of Technology

UNOOSA

JAXA

A REALITY....

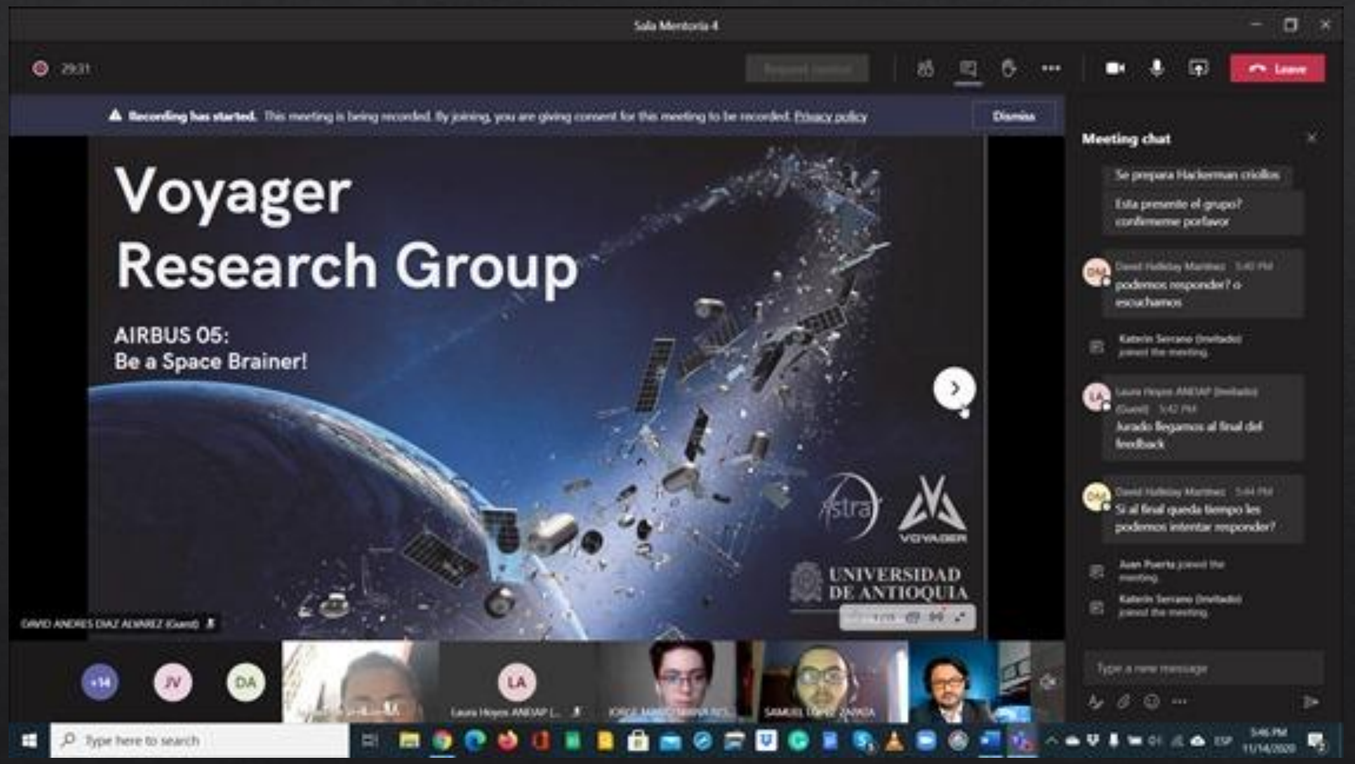


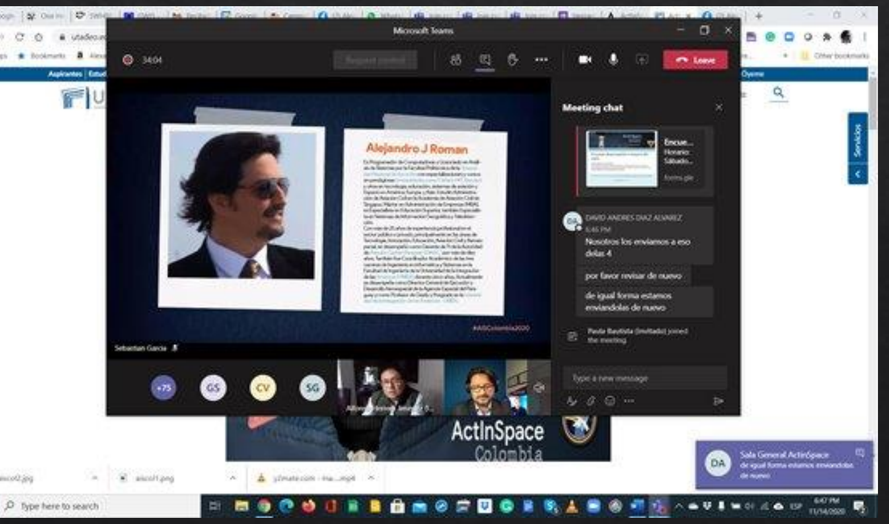
Aerospace Development

- Training, dissemination and international presence

COLOMBIA


ActInSpace
Colombia
2020 Edition
13 & 14th November
Sign in now!
#AIS


Sala Mentoria 4
Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy
Dismiss
Voyager
Research Group
AIRBUS 05:
Be a Space Brainer!
UNIVERSIDAD DE ANTIOQUIA
Meeting chat
Se prepara Hackerman criollos
Esta presente el grupo? confirmeme porfavor
podemos responder? o escuchamos
Jurado llegamos al final del feedback
Si al final queda tiempo les podemos intentar responder?
Type a new message
Type here to search


Microsoft Teams
Alejandro J Roman
Meeting chat
Nosotros los enviamos a eso delas 4
por favor revisar de nuevo
de igual forma estamos enviandolas de nuevo
Type a new message
ActInSpace
Colombia
Type here to search

RUSIA

worldskills Russia

CERTIFICATE OF HONOUR

This is to certify that
Alejandro J. Román M

as an expert

took part in IV WorldSkills Russia University League Competition
in Space System Engineering

MOSCOW 1-7 DECEMBER 2020

CEO WorldSkills Russia
Robert Urazov

FRANCE/UNITED STATES

PERU

WEBINAR

REVOLUCIÓN TECNOLÓGICA EN LA EDUCACIÓN

Dirigido al Público en General

Sábado 14 de Noviembre
10:00 h

Lugar: Campus Virtual
E-learning UNI

Moderadora:
Mg. Yvonne Alarcón

Ponente:
Mg. Alejandro Román Molinas
Director General de Ejecución y Desarrollo Aeroespacial
Agencia Espacial del Paraguay

Contactos:
campuselearninguni@uni.edu.pe

UNIDA Virtual

UNIDA PARAGUAY

AEP AGENCIA ESPACIAL DEL PARAGUAY

VIDEOCONFERENCIA

AVANCES EN EL DESARROLLO AEROESPACIAL

CASO: AGENCIA ESPACIAL DEL PARAGUAY

Viernes 19 de junio
19:30 hrs. (Perú)
20:30 hrs. (Paraguay)

Lugar: Campus de la UNIDA Virtual
Evento Gratuito

Disertante:
Mg. Alejandro Román Molinas
Director General de Ejecución y Desarrollo Aeroespacial
Catedrático de la UNIDA

MEXICO

COMUNICACIONES | AEM | SCO

Webinar SCO-Latinoamérica
6 de noviembre de 2020
9h – 10h30 (centro de México)
Agenda

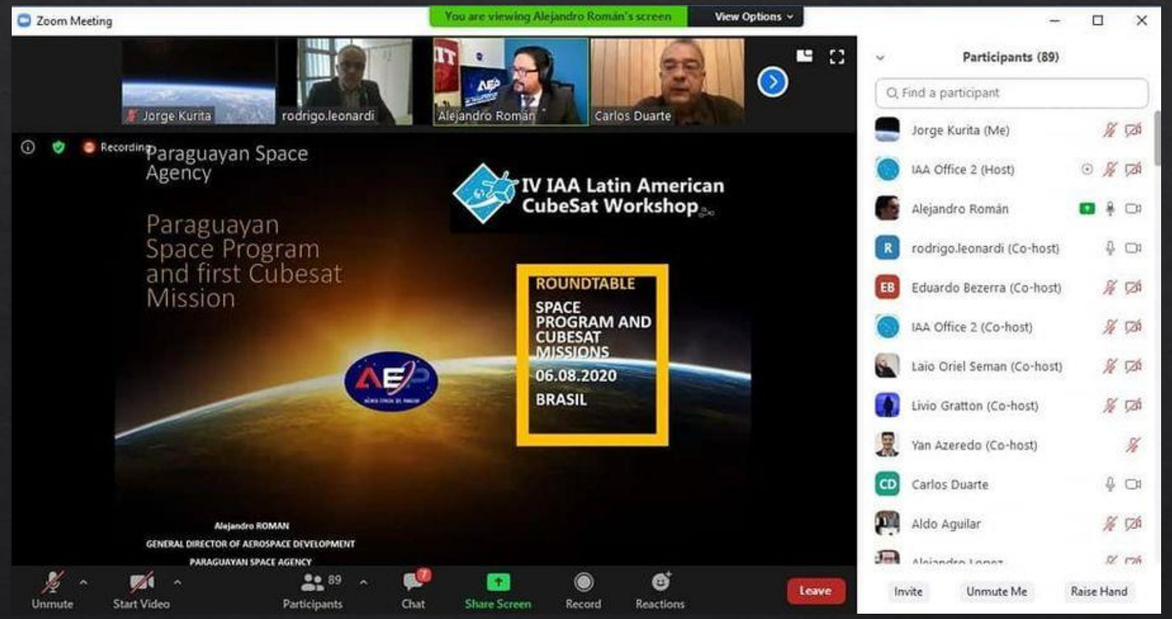
9:00 - 9:05	Palabras de bienvenida, SCO-CNES.
9:05 - 9:10	Presentación de la convocatoria 2020 de proyectos, Alejandro Monteleals.
9:10 – 9:20 (7 min presentación y 3 min Q&A)	Presentación Proyecto FloodDAM, Peter Kettig.
9:20 – 9:30 (7 min presentación y 3 min Q&A)	Presentación Proyecto ARBOCARTO-v2, Lucia Campagnolo.
9:30 – 9:40 (7 min presentación y 3 min Q&A)	Presentación (NECC (Por confirmar)
9:40 – 9:50 (7 min presentación y 3 min Q&A)	Presentación México, Jesús Romero, Agencia Espacial Mexicana.
9:50 – 10:00 (7 min presentación y 3 min Q&A)	Presentación Argentina, Sandra Torruesi, Comisión Nacionales de Actividades Espaciales.
10:00 – 10:10 (7 min presentación y 3 min Q&A)	Presentación Colombia, Pilar Zamora Acevedo, Agencia Espacial de Colombia.
10:10 - 10:20 (7 min presentación y 3 min Q&A)	Presentación Paraguay, Alejandro Román, Agencia Espacial del Paraguay y Ricardo Pereira, Secretaria de Emergencia Nacional.
10:20 – 10:30	Preguntas y respuestas

UNITED ARAB EMIRATES

global aerospace abu dhabi summit

AEROSPACE | AVIATION | DEFENCE | SPACE

BRASIL


Zoom Meeting
You are viewing Alejandro Román's screen
View Options
Jorge Kurita
rodrigo.leonardi
Alejandro Román
Carlos Duarte
Recording
Paraguayan Space Agency
Paraguayan Space Program and first Cubesat Mission
IV IAA Latin American CubeSat Workshop
ROUNDTABLE
SPACE PROGRAM AND CUBESAT MISSIONS
06.08.2020
BRASIL
Alejandro ROMAN
GENERAL DIRECTOR OF AEROSPACE DEVELOPMENT
PARAGUAYAN SPACE AGENCY
Participants (89)
Find a participant
Jorge Kurita (Me)
IAA Office 2 (Host)
Alejandro Román
rodrigo.leonardi (Co-host)
Eduardo Bezerra (Co-host)
IAA Office 2 (Co-host)
Laio Oriel Seman (Co-host)
Livio Gratton (Co-host)
Yan Azeredo (Co-host)
Carlos Duarte
Aldo Aguilar
Unmute
Start Video
Participants
Chat
Share Screen
Record
Reactions
Leave
Invite
Unmute Me
Raise Hand


Round-table, August 6th 2020
"Latin American Space Programs and the Cubesat Missions"
IV IAA Latin America CubeSat Workshop
Livio Gratton
CONAE-UNSAM
Argentina
Rodrigo Leonardi
AEB
Brazil
Marcos Diaz
Uchile
Chile
Ronnie Nader
EXA
Ecuador
Luis Zea
UVG
Guatemala
Carlos Duarte Muñoz
AEM
Mexico
Alejandro Román
AEP
Paraguay
Juan Julca Yaya
CONIDA
Peru


AEP
AGENCIA ESPACIAL DEL PARAGUAY
Alejandro ROMAN
Director General de Ejecución y Desarrollo Aeroespacial
AGENCIA ESPACIAL DEL PARAGUAY
Thank you...


2020
IV IAA LACW


INTERNATIONAL ACADEMY OF ASTRONAUTICS
THE ACADEMY
EVENTS
RESEARCH
PUBLICATIONS
MEMBERS
SHOP
IAA DIGITAL CONFERENCE CENTER
4TH IAA LATIN AMERICAN CUBESAT WORKSHOP
03-06 AUGUST, 2020

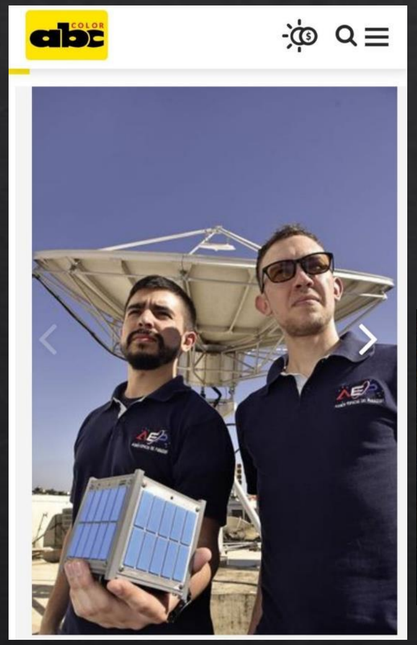
CHILE


SG Latin American
Webinar Series
SG Latin American Webinar Series
S5
Democratizando el espacio: oportunidades y beneficios de implementaciones regionales de tecnologías espaciales de bajo costo
27 de Mayo | Hrs: 18:00 - 19:30 (UTC - 5)
Moderadora: Isidora Casas del Valle, NPoC Chile
P1
Ampliación de la diversidad espacial en Colombia
MY. Sonia Rincon, Colombia
Lider Centro Ciencia y Tecnologia Fuerza Aerea Colombiana
P2
Beneficios del desarrollo aeroespacial para el Paraguay
Alejandro Román, Paraguay
Director General de Desarrollo Aeroespacial de la Agencia Espacial del Paraguay (AEP)
P3
Democratización del espacio
Andrés Martínez, Mexico/USA
Ejecutivo de programa, División de Sistemas de Exploración Avanzada - NASA
/SpaceGenSouthAmerica
/NCACSGAC
Registro eventbrite
COMUNICACIONES
AEM
UNIVERSIDAD DE ANTIOQUIA
SETEC Lab
Tecnológico de Monterrey

UNITED KINGDOM

Wilton Park

PARAGUAY



NPY.COM.PY

¡Orgullo nacional! Primer satélite paraguayo es presentado en Japón | Noticias Paraguay

YOUTUBE.COM

¡Orgullo nacional! Primer satélite paraguayo es presentado en japón

PARAGUAY


AGENCIA ESPACIAL DEL PARAGUAY
"UNA HERRAMIENTA MÁS PARA EL DESARROLLO Y DEFENSA NACIONAL"
"SABER MÁS SOBRE EL ESPACIO Y TU AGENCIA ESPACIAL"
CHARLAS PROGRAMADAS
AGENCIA BOLIVIANA ESPACIAL Y EL SATÉLITE TUPAC KATARI - 1
PH.D ALEXIS ANDRADE ROMERO
ESTACIÓN ESPACIAL INTERNACIONAL
PROF. MCTER ALEJANDRO ROMÁN
AEP - PARAGUAY
GOBIERNO NACIONAL
Paraguay de la gente
PARAGUAY TV
canal 15.1 | canal 14 | canal 3 | canal 18 Claro tv | canal 43 Arapuku | canal 3 y 603HD
Hoy, domingo 19 de Julio del 2020 a las 20:00 hs.


AEP
AGENCIA ESPACIAL DEL PARAGUAY


GUARANISAT - 1
BIRDS-4
2020
PROYECTO
PARAGUAY AL ESPACIO
Y LA IMPORTANCIA DEL DERECHO Y LA POLÍTICA ESPACIAL
Prof. Dra. Inés Martinez Valinotti
PROFESORA TITULAR
DERECHO AERONÁUTICO Y ESPACIAL
SEGUNDA CÁTEDRA T.N.
Cnel Liduvino Vielman Diaz
MINISTRO
PRESIDENTE AEP
Ing. Jorge Kurita
DGPG AEP
Prof. Mg. Alejandro Román
DGEDA AEP
Coordinador General del Proyecto
Ing. Adolfo Jara
ENCARGADO SEGMENTO ESPACIAL AEP
Ing. Anibal Mendoza
ENCARGADO SEGMENTO ESPACIAL AEP
Ing. Eladio Javier Ferrer
Encargado Segmento Terrestre AEP
VIERNES 7 DE AGOSTO -18:00 Hs.
LIVE AGENCIA ESPACIAL DEL PARAGUAY - AEP.
ACTIVIDAD DE EXTENSIÓN UNIVERSITARIA
DE LA CÁTEDRA DERECHO AERONÁUTICO Y ESPACIAL
SEDE CENTRAL Y SAN JUAN BAUTISTA MISIONES
RESPONSABLES:
- Prof. Abg. Hebe Romero
- Prof. Abg. Janice Goldenberg
- Raquel Bogado 0985 632 101
- Sebastian Lobos 0984 540 465
- Ivo Baez 0983 766 895 - Filial Misiones.
POLÍTICA ESPACIAL DEL PARAGUAY
U.N.A.
1889


Universidad Metropolitana de Asunción
Centro de Investigación, Análisis y Estrategia (CIAE)
Escuela de Postgrado
CICLO DE CONFERENCIAS VIRTUALES EDUCATIVAS EN MATERIA DE SEGURIDAD Y DEFENSA MULTIDIMENSIONAL EN EL CONTEXTO DEL COVID-19
TEMA: Agencia Espacial del Paraguay; Cómo las Ciencias y Tecnologías Espaciales pueden ayudar en la Epidemiologia.
Jueves 23 julio · 16:00 hs.
EXPOSITORES
Coronel DEM (R) Liduvino Vielman Diaz
Presidente de la Agencia Espacial del Paraguay
Prof. Mg. Alejandro Román Molinas
Director de Desarrollo Aeroespacial de la AEP.
Docente Universitario
COORDINACIÓN
Dra. Abg. Nair Cardozo
UMA
Egresada del Centro de Estudios Hemisférico de Defensa William J. Perry (Washington - USA)
https://us02web.zoom.us/j/87042235917


AGENCIA ESPACIAL DEL PARAGUAY
"UNA HERRAMIENTA MÁS PARA EL DESARROLLO Y DEFENSA NACIONAL"
"SABER MÁS SOBRE EL ESPACIO Y TU AGENCIA ESPACIAL"
CHARLAS PROGRAMADAS
BENEFICIOS DEL ESPACIO NEW SPACE Y PARAGUAY
PHD. JORGE KURITA
DIRECTOR GENERAL DE PLANIFICACIÓN Y GESTIÓN AEP
PROF. MG. ALEJANDRO ROMÁN
DIRECTOR DE EJECUCIÓN Y DESARROLLO AEROESPACIAL AEP
SÁBADO 4 DE JULIO | 14:00 HS.
LIVE AGENCIA ESPACIAL DEL PARAGUAY - AEP
GOBIERNO NACIONAL
Paraguay de la gente
PARAGUAY TV
canal 15.1 | canal 14 | canal 3 | canal 18 Claro tv | canal 43 Arapuku | canal 3 y 603HD


AGENCIA ESPACIAL DEL PARAGUAY
"UNA HERRAMIENTA MÁS PARA EL DESARROLLO Y DEFENSA NACIONAL"
"SABER MÁS SOBRE EL ESPACIO Y TU AGENCIA ESPACIAL"
CHARLAS PROGRAMADAS
"PARAGUAY AL ESPACIO" PRIMERA MISIÓN ESPACIAL PARAGUAYA
GUARANISAT-1. SEGMENTO ESPACIAL
ING. MSC. ADOLFO JARA
AEP - PARAGUAY
ING. ANÍBAL MENDOZA
AEP - PARAGUAY
"PARAGUAY AL ESPACIO" PRIMERA MISIÓN ESPACIAL PARAGUAYA
GUARANISAT-1. SEGMENTO TERESTRE
ING.ELADIO FERRER
AEP - PARAGUAY
JUEVES 04 DE JUNIO | 14:00 HS
LIVE AGENCIA ESPACIAL DEL PARAGUAY - AEP
GOBIERNO NACIONAL
Paraguay de la gente

PARAGUAY


Recording
Usted está viendo la pantalla de Alejandro Román
Ver opciones
Desde el Centro de Operaciones, Monitoreo y Control de la AEP
LIVE
Sábado 30 de Mayo 2020 - 14:30 Hs.
Liduvino Vielman
MINISTRO PRESIDENTE
Alejandro J. Román
DG EJEC. Y DESARROLLO AEROESPACIAL
Hebe Romero
DG JURIDICA Y DE AS.INTERNAC.
Con la participación especial de expertos internacionales del ámbito espacial.
Hernando Gauto
NASA
ESTADOS UNIDOS
Luis Diego Monge
IRAZU
COSTA RICA
Victoria Valdivia
ANEPE
CHILE
Jesus Martinez Frias
REDESPA
ESPAÑA
Retransmisión del Lanzamiento d
Crew Dragon Demo-2
Alejandro Román
HURLEY
BEHNKEN
F9
DM-2
FIRST CREWED FLIGHT
NASA SPACEX
This Photo by Unknown Author is licensed under CC BY-SA

ACTIVITIES 2022

- NATIONAL EMERGENCY SECRETARY
- INFONA
- MADES
- WWF
- NATIONAL UNIVERSITY OF ASUNCION
- UNIVERSITY OF THE PACIFIC
- IPTA
- SENEPA
- PETROPAR
- UNDP
- CEDIC
- SCIENTIFIC SOCIETY OF PARAGUAY
- OTHER
-

- OTHER HEALTH AREAS
- AGRICULTURE
- CAPACITY BUILDING
- EARTH OBSERVATION LABORATORY
- OPERATION GUARANISAT-1
- EARTH STATIONS OPERATIONS
- TERRITORIAL PLANNING
- NEW ALLIANCES
- NEW CHALLENGES
- NEW PROJECTS…

KEY POINTS OF INTEREST

- Continue with Basic Space Engineering Projects (next mission),
- Participating in joint missions (Kyutech´s Kitsune, others).
- Participating in International Challenges and Competition in STEM/STEAM
- Strengthen the Capacity Building (Training, Experts, Technical Visits),
- Earth Observation Applications for our GEOLab (Satellite Data, Images, Models, Tools,
- Scientific, education and outreach events (march 1ST Year GuaraniSat-1, October VI Paraguay Space Conference & AmeriGEO Week)
- Others

Conclusions

Musica:www.bensound.com

TEAMWORK

AGENCIA ESPACIAL DEL PARAGUAY

The exploration and use of outer space shall be carried out for the benefit, and in the interests of all countries and shall be the province of all mankind...

The Outer Space Treaty 1967

AGÊNCIA ESPACIAL DEL PARAGUAY

SPACE IS FOR EVERYONE

AGÊNCIA ESPACIAL DEL PARAGUAY

IS IMPERATIVE TO LEAVE NO ONE BEHIND

THANK YOU

- Prof. Mg. Alejandro ROMAN
- General Manager of Aerospace Execution and Development
- PARAGUAYAN SPACE AGENCY
- aroman@aep.gov.py


AEP
AGENCIA ESPACIAL DEL PARAGUAY