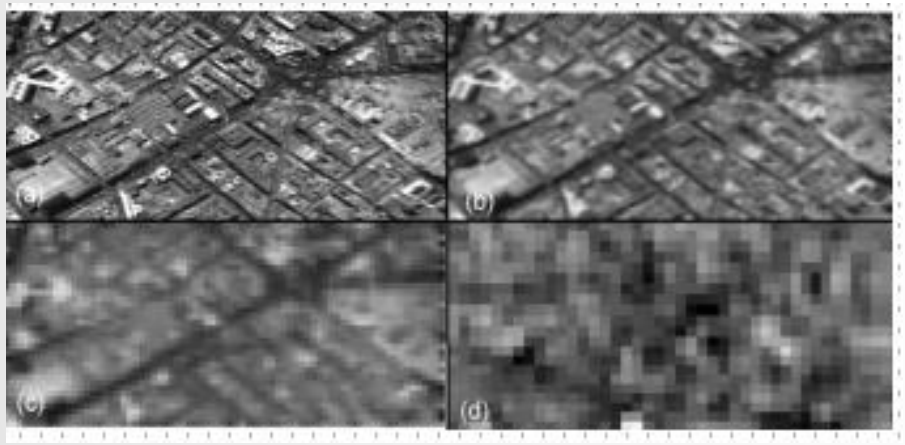
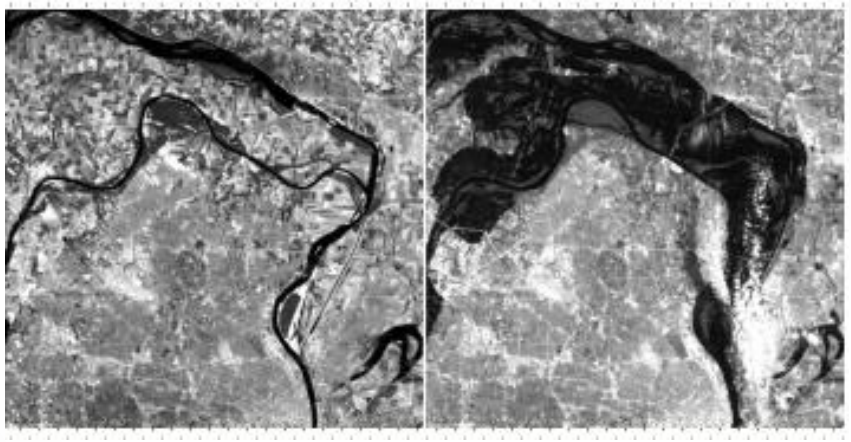
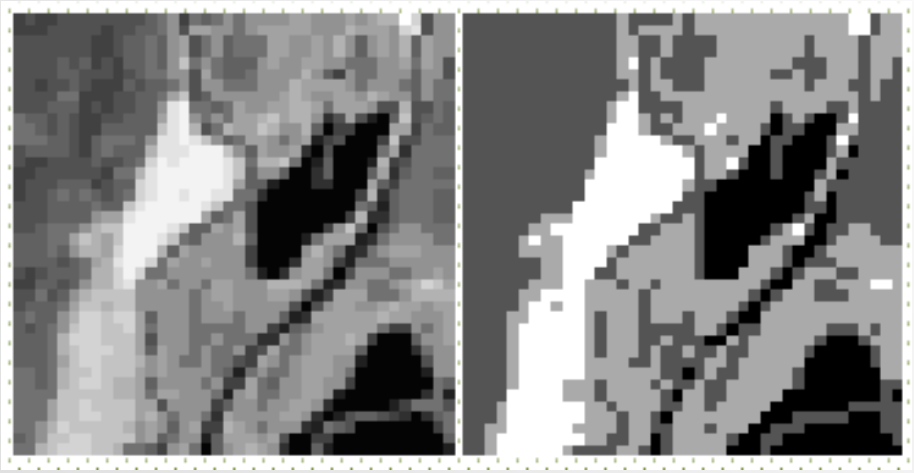
# DATOS AMBIENTALES TIPO

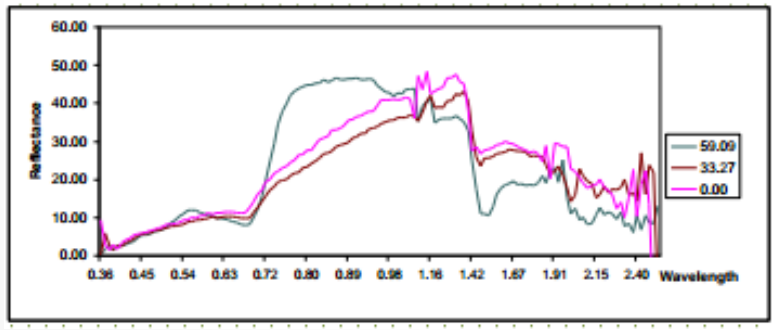
Modelado de nicho ecológico

# RESOLUCIONES










Chuvieco, 2002

# ELEMENTOS BÁSICOS DE UN SIG EN EL PROCESADO DE INFORMACIÓN AMBIENTAL.

1. Los SIG maneja información de carácter geográfico.

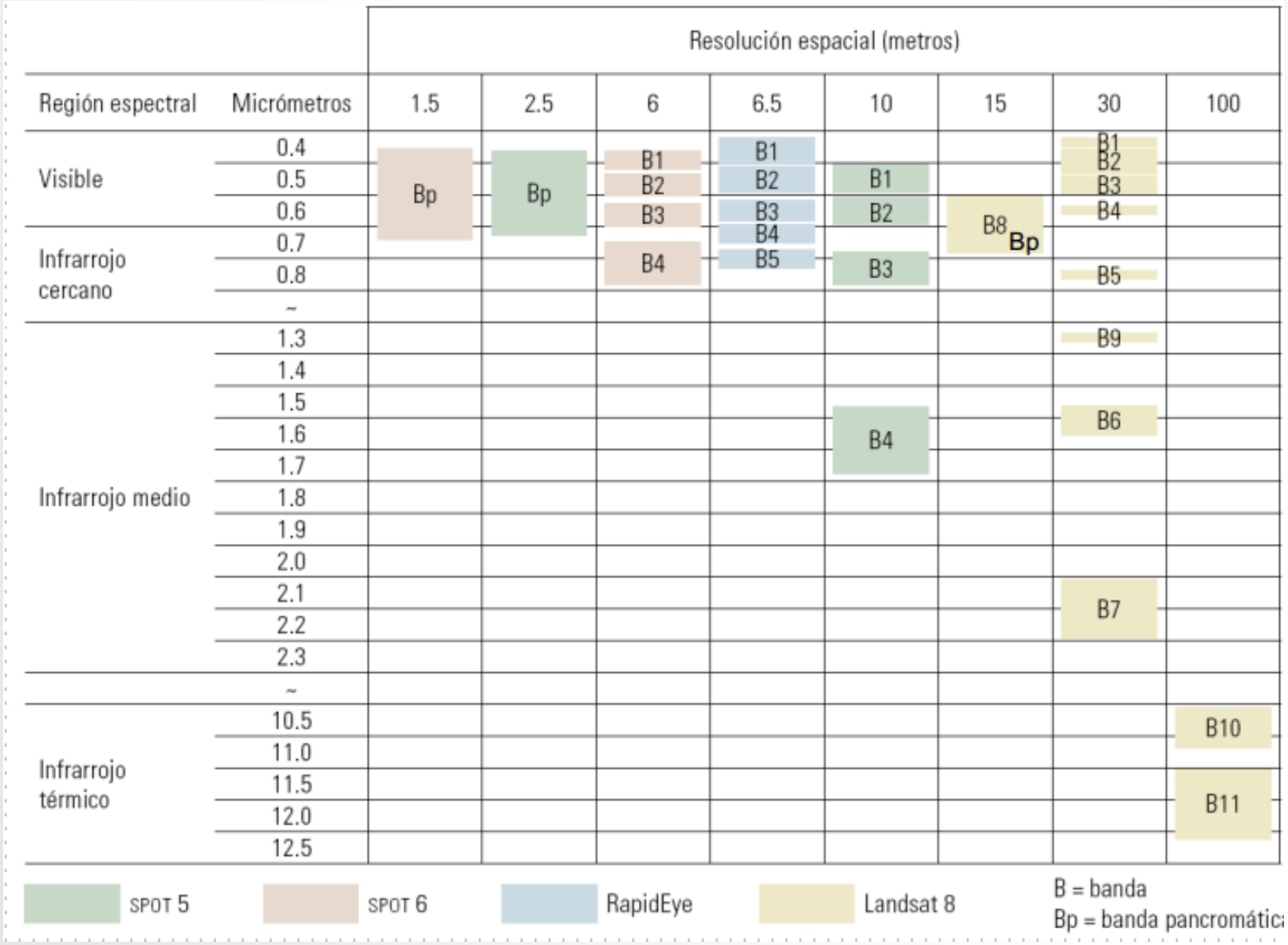
2. La información tiene una vertiente espacial (TIN, MDE, XYZ)

3. Datos de carácter temático que otros
sistemas no almacenan (tipología)

Uno de los formatos ampliamente usados en el mundo del MNE es el archivo shape; el cual esta compuesto por:

*.*.dbf
*.*.prj
*.*.shp
*.*.shx

***Uso de folder para cada archivo shape cuando se comparte


Resolución espacial (metros)
Región espectral
Micrómetros
1.5
2.5
6
6.5
10
15
30
100
Visible
Infrarrojo cercano
Infrarrojo medio
Infrarrojo térmico
0.4
0.5
0.6
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~
1.3
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2.0
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10.5
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Bp
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B1
B2
B3
B4
B8
Bp
B1
B2
B3
B5
B9
B6
B7
B10
B11
SPOT 5
SPOT 6
RapidEye
Landsat 8
B = banda
Bp = banda pancromática

| Sensor | Resolución espacial (m) | Núm. de bandas | Periodo de revisita (días) | Tiempo de vida de la misión | Referencia |
|---|---|---|---|---|---|
| GeoEye1 | Pan:0.41<br>ME: 1.64 | Pan: 1<br>ME: 4 | 3 | 2008 - | https://directory.eoportal.org/web/eoportal/satellite-missions/g/geoeye-1<br>http://www.inegi.org.mx/geo/contenidos/imgpercepcion/imgsatelite/geoeye_1.aspx |
| Quickbird | Pan: 0.61<br>ME: 2.5 | Pan: 1<br>ME: 4 | 2 - 4 | 2001 - 2015 | https://directory.eoportal.org/web/eoportal/satellite-missions/q/quickbird-2 |
| Worldview 1,2,3 | Pan:0.31<br>ME:1.24<br>SWIR: 3.7<br>CAVIS: 30 | Pan: 1<br>ME: 11 | 1 - 3 | 2007 - | https://directory.eoportal.org/web/eoportal/satellite-missions/v-w-x-y-z/worldview-3 |
| Ikonos | Pan: 0.82<br>ME: 3.28 | Pan: 1<br>ME: 4 | 3 - 5 | 1999 - | https://directory.eoportal.org/web/eoportal/satellite-missions/i/ikonos-2 |
| LISS IV | ME: 5.8 | ME: 3 | 5 | 2003 - | https://directory.eoportal.org/web/eoportal/satellite-missions/i/irs-p6 |

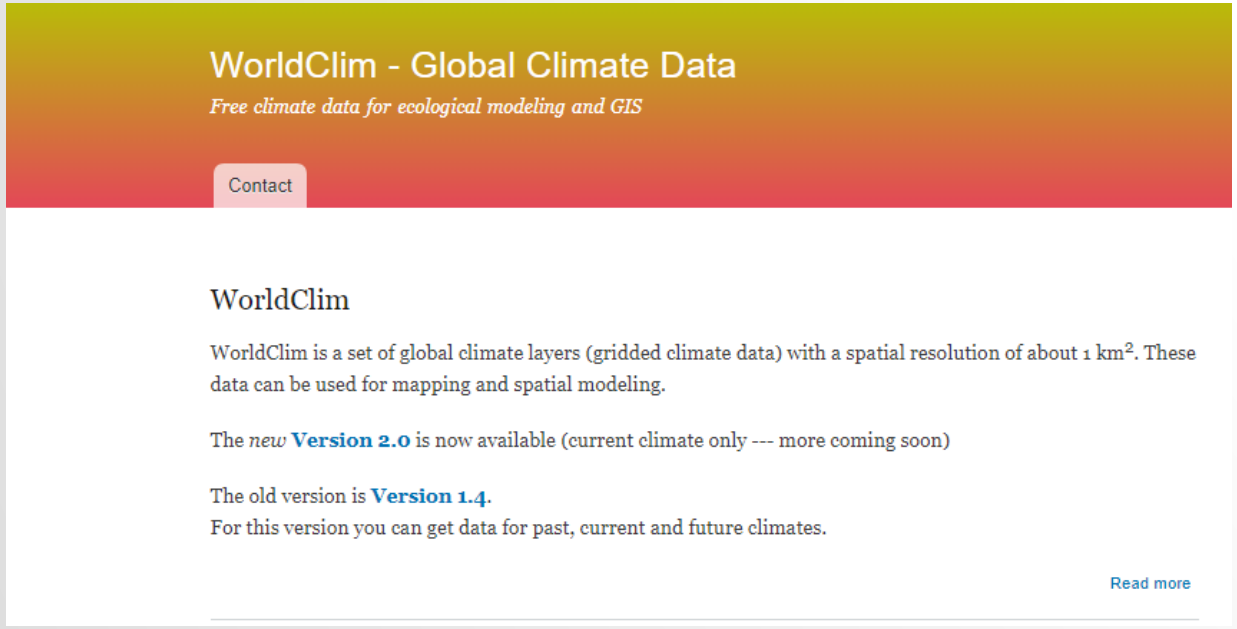
| Sensor | Resolución espacial (m) | Núm. de bandas | Periodo de revisita (días) | Tiempo de vida de la misión | Referencia |
|---|---|---|---|---|---|
| SPOT 1,2,3,4,5,6,7 | Pan: 1.5<br>ME: 6 | Pan: 1<br>ME: 4 | 1 | 1986 - | http://www.geo-airbusds.com/en/143-spot-satellite-imagery<br>http://ermexs.siap.gob.mx/procesos/registro.asp |
| RapidEye | ME: 6.5 | ME: 5 | 5.5 | 2008 - | https://directory.eoportal.org/web/eoportal/satellite-missions/r/rapideye |
| LISS III | ME: 23.5 | ME: 4 | 25 | 2003 - | https://directory.eoportal.org/web/eoportal/satellite-missions/i/irs-p6 |
| Landsat 1,2,3,4,5,7,8 | Pan: 15<br>ME: 30<br>TIR: 100 | Pan: 1<br>ME: 10 | 16 | 1972 - | http://landsat.gsfc.nasa.gov/<br>http://earthnow.usgs.gov/ |
| AWIFS | ME: 56 | ME: 4 | 5 | 2003 - | https://directory.eoportal.org/web/eoportal/satellite-missions/i/irs-p6 |
| Sentinel | ME: 10<br>ME: 20<br>ME: 60 | Pan:<br>ME:13 | 10 | 2015 - | https://sentinels.copernicus.eu/web/sentinel/home |

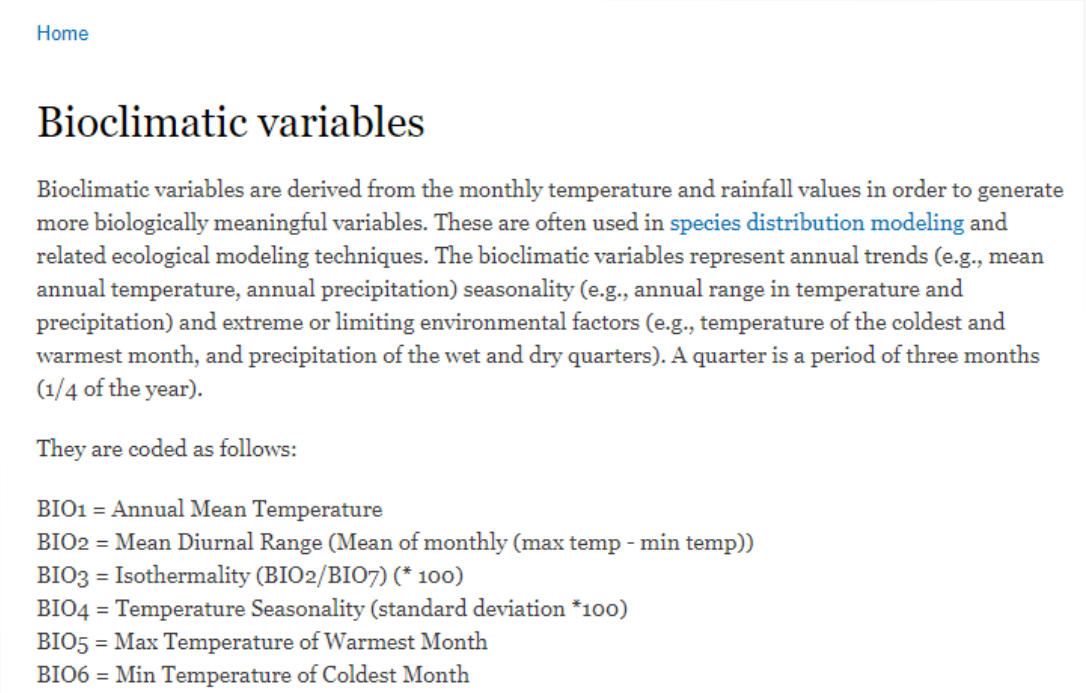
# DATOS CLIMÁTICOS

Fuentes y tipos de datos: Aspectos generales.

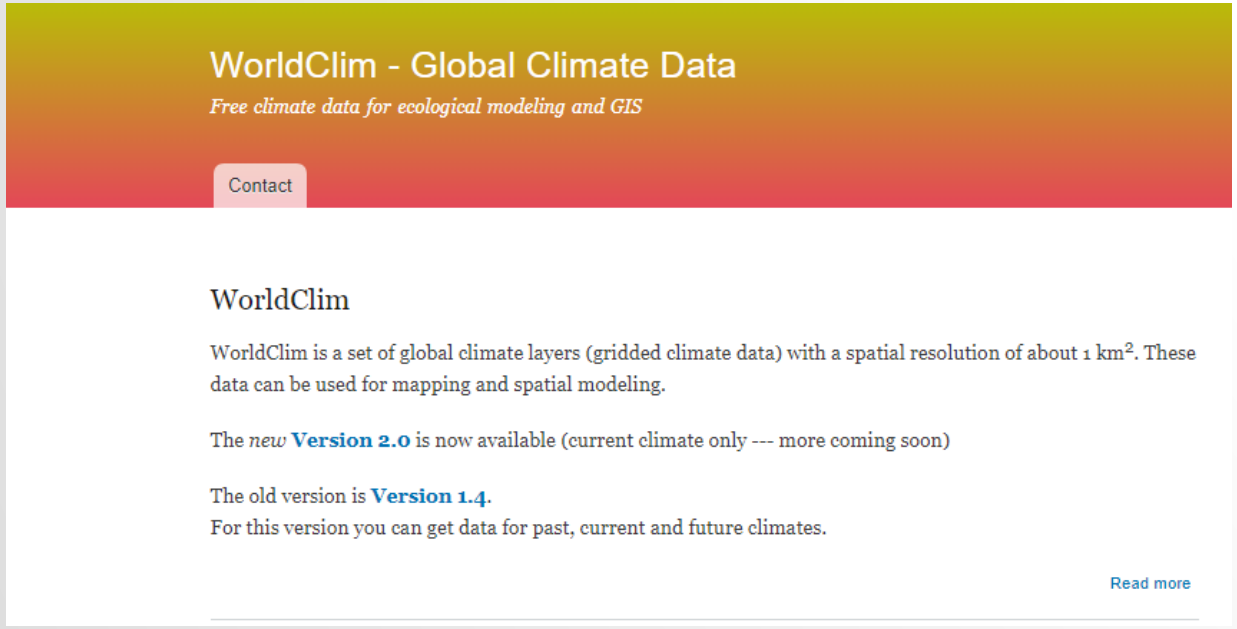
- Los datos climáticos son la base primigenia del MNE; ha sido ampliamente desarrollado
- y explorado. Se cuenta con datos climáticos globales y múltiples fuentes.

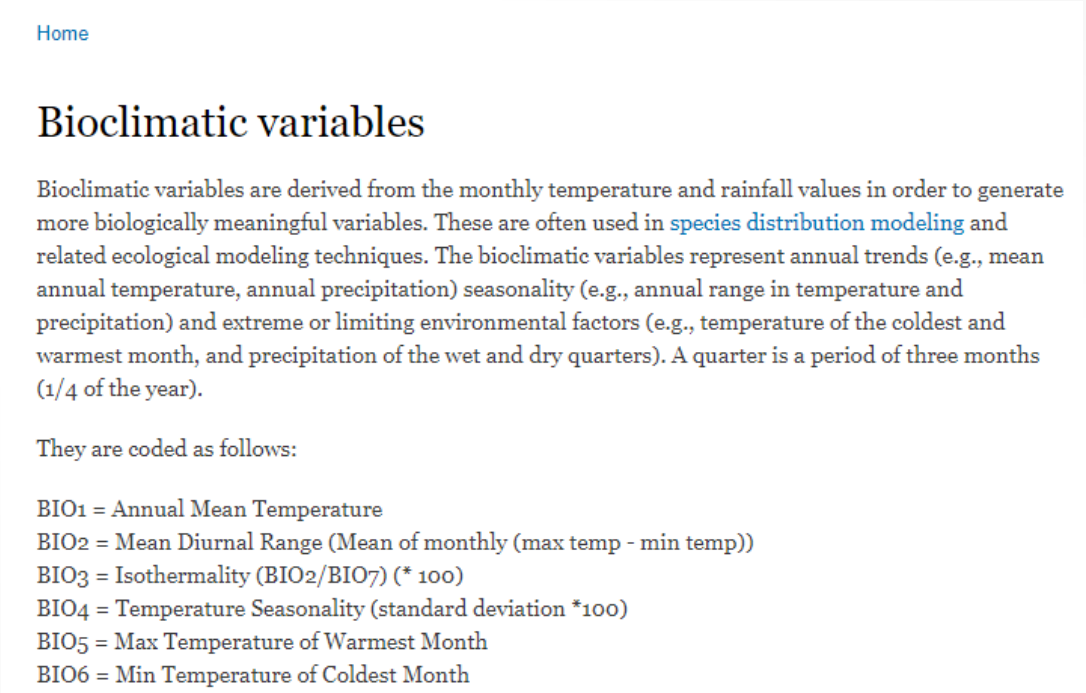
# BASES DE DATOS CLIMÁTICOS.



# BASES DE DATOS CLIMÁTICOS.

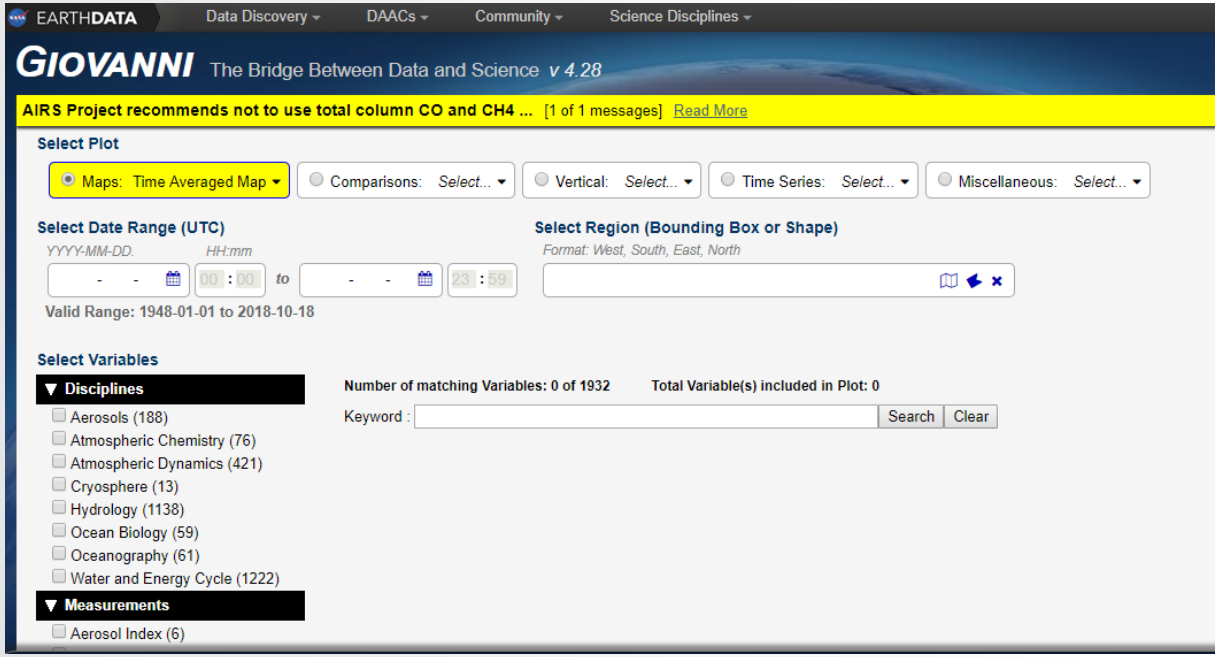


# BASE DE DATOS

- Zonas amplias para contextos biogeográficos, macroecologia

- Mucha información. Pero dispersa, difusa, en ocasiones duplicadas


EARTHDATA
Data Discovery
DAACs
Community
Science Disciplines
GIOVANNI The Bridge Between Data and Science v 4.28
AIRS Project recommends not to use total column CO and CH4 ... [1 of 1 messages] Read More
Select Plot
Maps: Time Averaged Map
Comparisons: Select...
Vertical: Select...
Time Series: Select...
Miscellaneous: Select...
Select Date Range (UTC)
YYYY-MM-DD. HH:mm
to
Valid Range: 1948-01-01 to 2018-10-18
Select Region (Bounding Box or Shape)
Format: West, South, East, North
Select Variables
Disciplines
Aerosols (188)
Atmospheric Chemistry (76)
Atmospheric Dynamics (421)
Cryosphere (13)
Hydrology (1138)
Ocean Biology (59)
Oceanography (61)
Water and Energy Cycle (1222)
Measurements
Aerosol Index (6)
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Total Variable(s) included in Plot: 0
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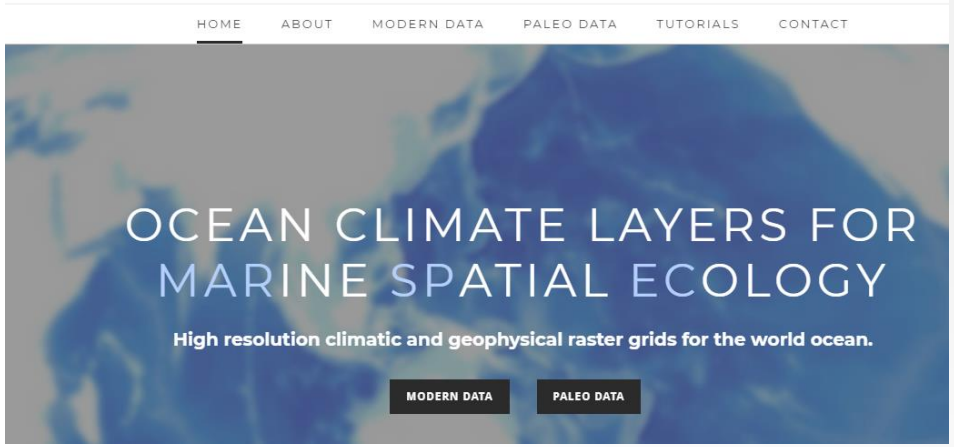
Clear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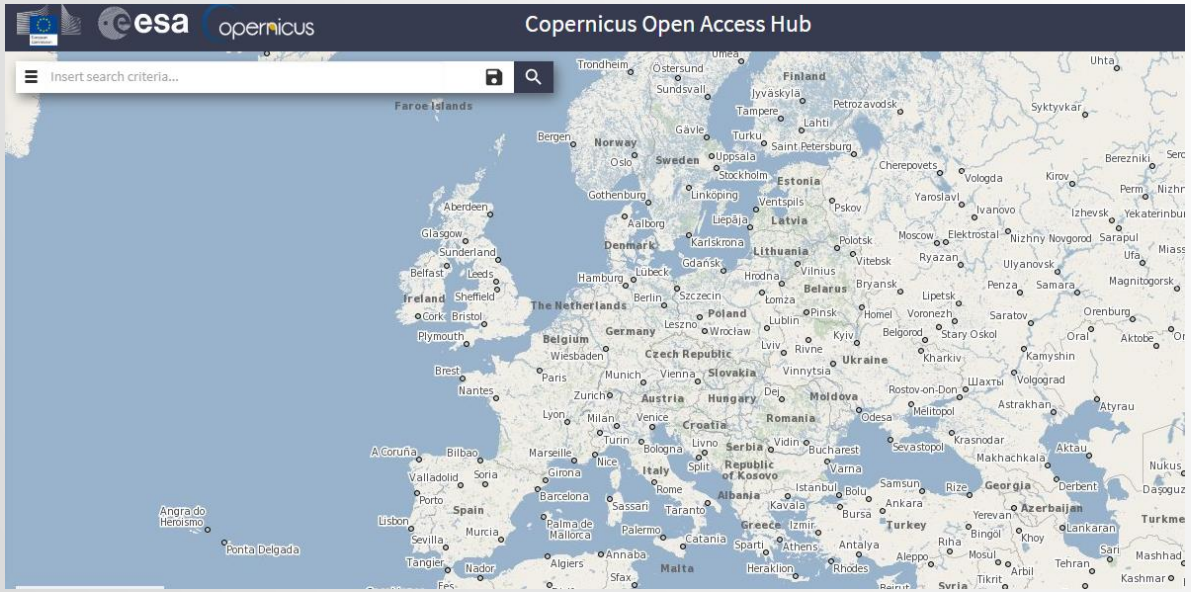
PALEO DATA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Copernicus Open Access Hub
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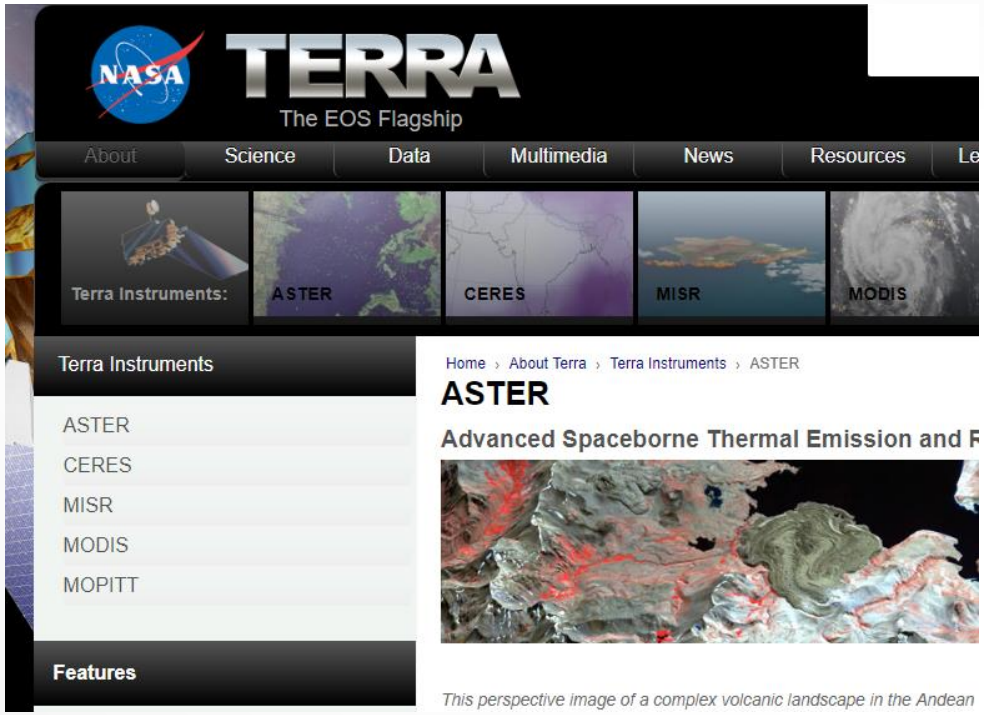
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ASTER
Advanced Spaceborne Thermal Emission and R
This perspective image of a complex volcanic landscape in the Andean

# SELECCIÓN DE DATOS

- Objetivo del trabajo
- Escala cartográfica
- Características de los datos (4 resoluciones)
- Nivel procesamiento y disponibilidad

| Tipo de imagen de satélite | Resolución espacial | Escala cartográfica recomendada |
|---|---|---|
| AVHRR | 1.1 km | 1:2 000 000 |
| MODIS | 1 km<br>500 m | 1:1 000 000<br>1:500 000 |
| Landsat TM | 30 m | 1:100 000 |
| SPOT 5 | 10 m<br>5 m | 1:50 000<br>1:25 000 |