



# **CEOS ECV Inventory**

*Database Statistics, Analyses, and Future Plans*

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Working Group on Climate Meeting

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# ECV Inventory Approach



- **ECV Inventory Questionnaire**

- **45 total questions** based on 5 topics (General, Usage, Stewardship, Properties, Access).
- Many questions use menu selections (**12 menus**).  
Some example menus are: Agency, Project, ECV, Satellite, Data Format.
- Two types of surveys: one for current/existing records and one for future records

- **Inventory Database Development and Integration**

- SEO completed survey database in June. Code based on the CEOS Actions Database, which had been used for a couple of years.
- Agency call went out with the MIM call in June
- Agencies completed entries up until last week
- Envision this as a living database with the record information updated as agencies desire
- Need to decide if a formal annual call to update is appropriate, similar to the MIM

# CEOS ECV Inventory




Essential Climate Variable (ECV) Inventory




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## ECV Records

### Atmosphere

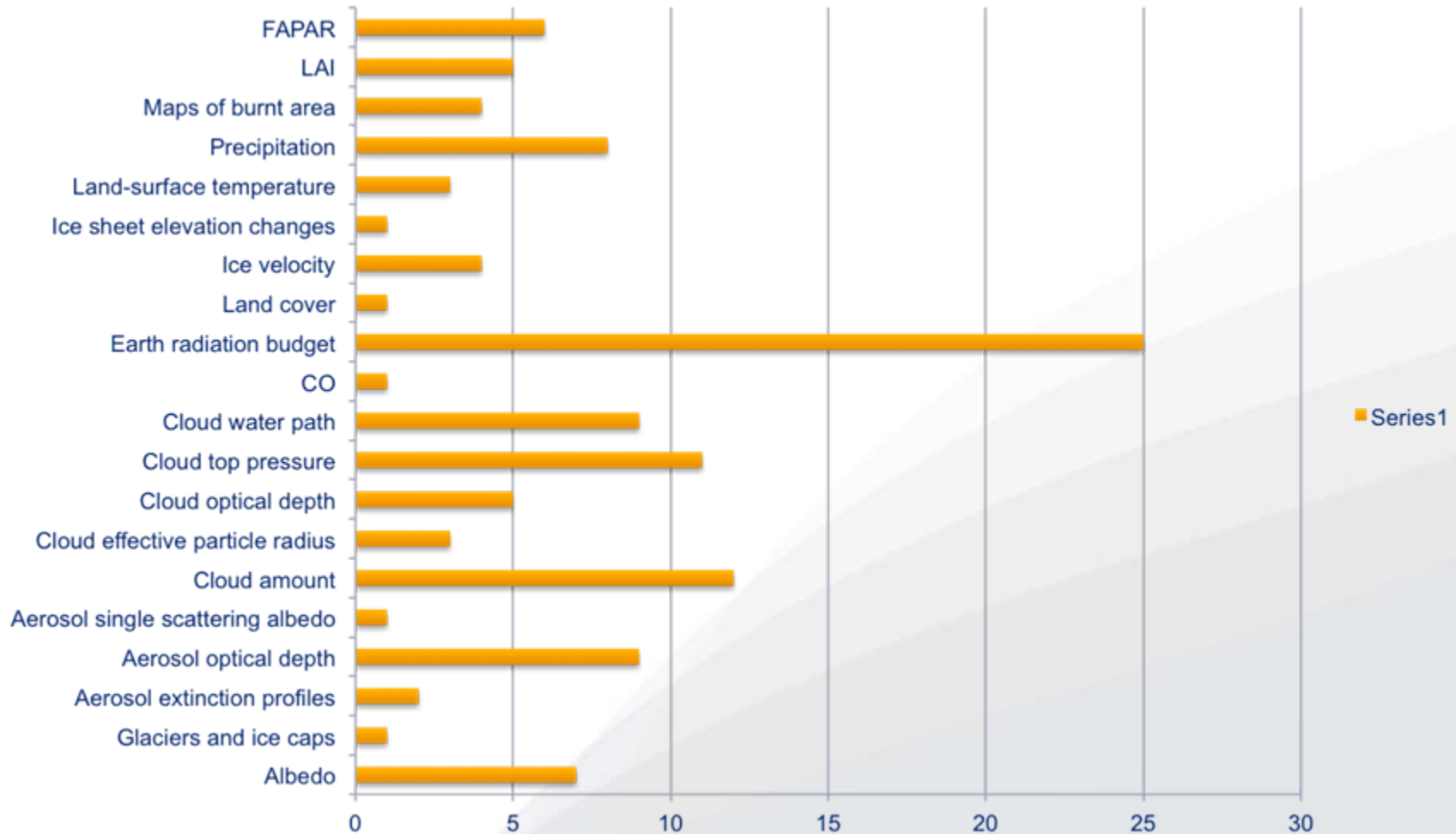
- CDR\_ECV01\_10
- CDR\_ECV01\_11
- CDR\_ECV01\_12
- CDR\_ECV01\_13
- CDR\_ECV01\_14
- CDR\_ECV01\_15
- CDR\_ECV01\_16
- CDR\_ECV01\_17
- CDR\_ECV01\_18
- CDR\_ECV01\_19
- CDR\_ECV01\_20
- CDR\_ECV01\_21
- CDR\_ECV01\_3
- CDR\_ECV01\_4
- CDR\_ECV01\_5
- CDR\_ECV01\_6
- CDR\_ECV01\_7
- CDR\_ECV01\_8
- CDR\_ECV01\_9
- CDR\_ECV02\_1
- CDR\_ECV02\_2
- CDR\_ECV02\_3
- CDR\_ECV02\_4
- CDR\_ECV02\_5

<b>ECV Record Id</b>	CDR_ECV04_7
<b>Responder name</b>	Rainer Hollmann
<b>Responder email</b>	rainer.hollmann@dwd.de
<b>Data Set Identifier</b>	Yes, new release of CM SAF (CM-05)
<b>Responsible organization</b>	EUMETSAT
<b>International Coordination</b>	yes SCOPE-CM
<b>Assessment body</b>	no
<b>Quality control organization</b>	no
<b>Climate applications</b>	cloud feedback, radiation budget
<b>Essential Climate Variable (ECV)</b>	Cloud amount
<b>Collection organization</b>	NOAA EUMETSAT
<b>Calibration organization</b>	NOAA
<b>Intercalibration organization</b>	NOAA
<b>FCDR organization</b>	NOAA
<b>TCDR organization</b>	EUMETSAT CM SAF (DWD, KNMI, SMHI)
<b>GCOS Requirements Assessments organization</b>	EUMETSAT CM SAF
<b>Independent peer review organization</b>	EUMETSAT Secretariat

# ECV Inventory Statistics



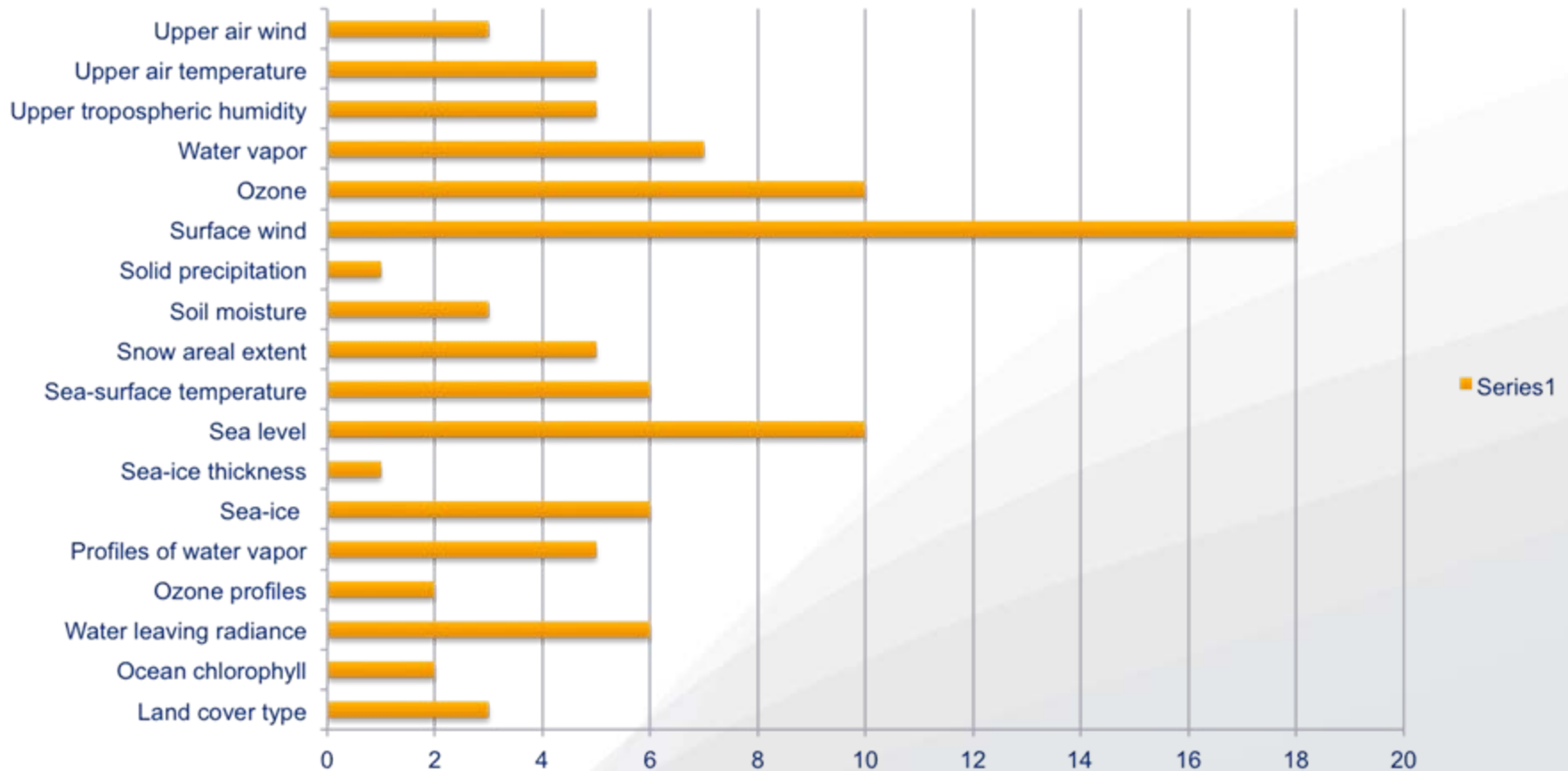
- Number of records per ECV



# ECV Inventory Statistics



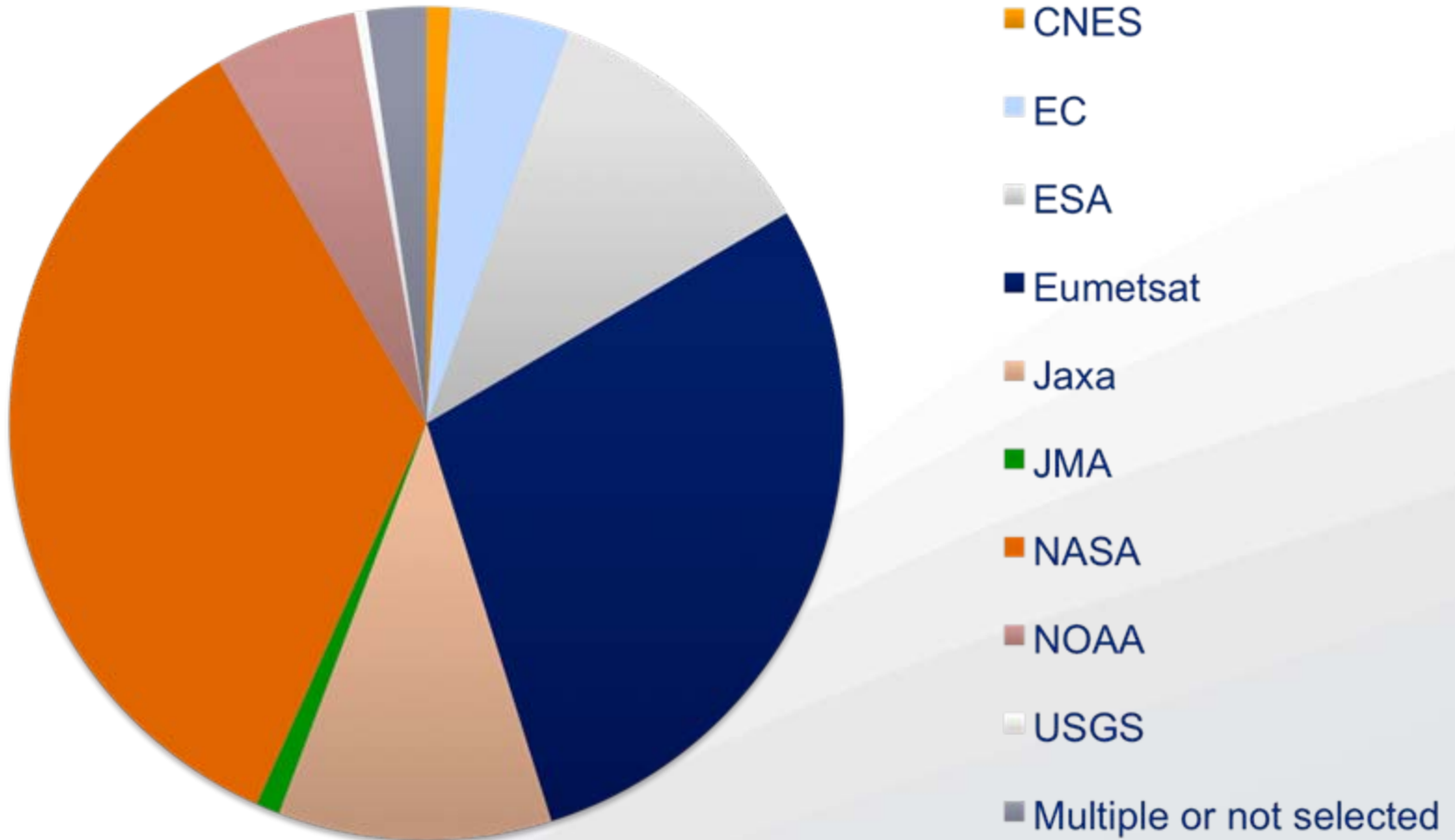
- Number of records per ECV, continued



# ECV Inventory Statistics – Responsible Org



- Number of records per responsible organization



# ECV Inventory Statistics – Assessment Body

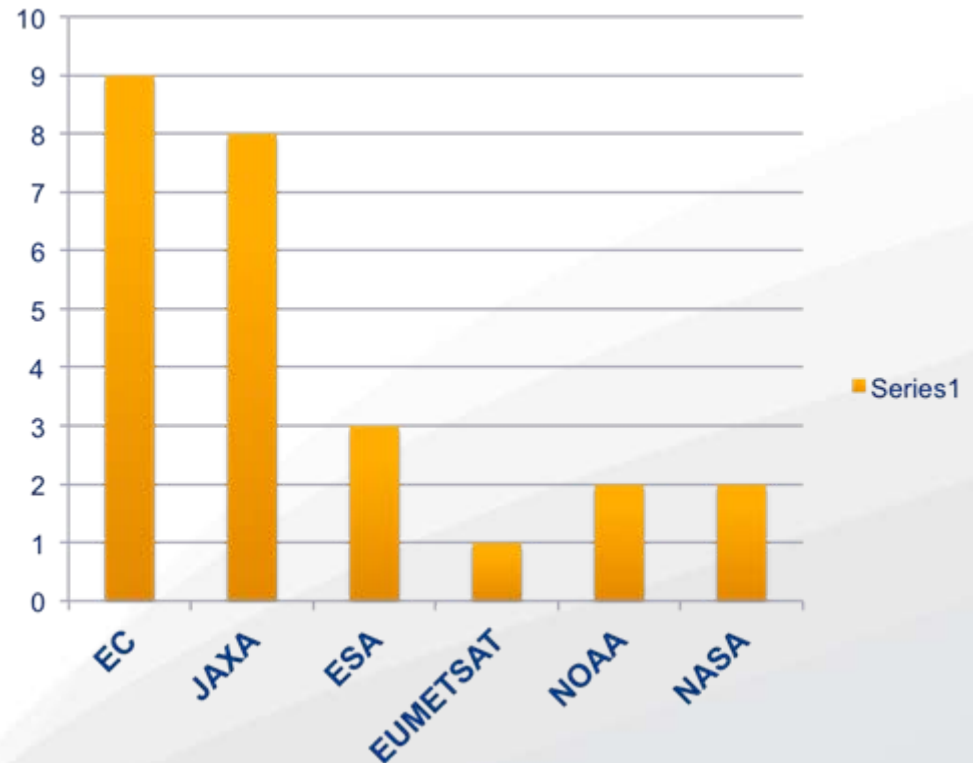


- Number of records that use an assessment body



■ No - 192  
■ Yes - 25

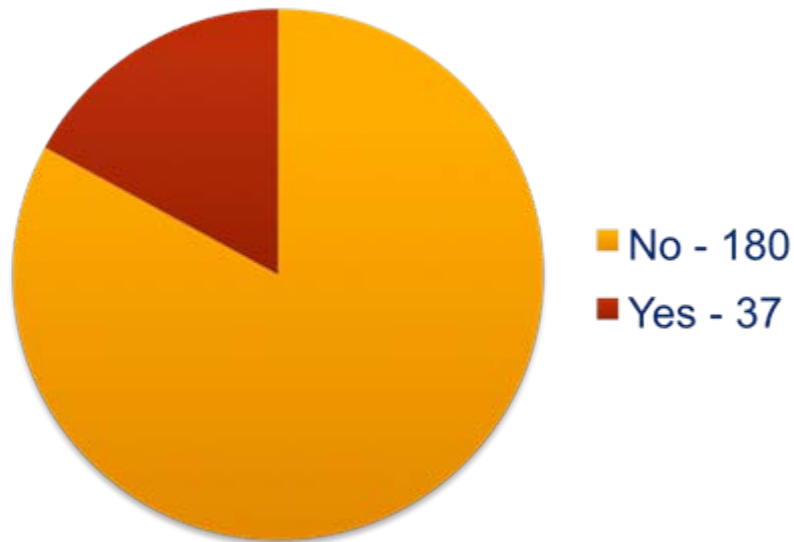
- Who are the assessment bodies?



# ECV Inventory Statistics – Quality Control Org



- Number of records that use a quality control organization



- Who are the quality control organizations?





# ECV Inventory Statistics – In-situ Cal Network



- Number of records that use an in-situ calibration network







# Future Plans



- **Define Query Capabilities and Expand the EO Handbook to include the ECV Inventory data**
- **Decide on future survey needs; once a year or ongoing through the [ecv-inventory.com](http://ecv-inventory.com) site. Data would periodically be imported to the EO Handbook for updates**
- **Future surveys could be tied to the MIM annual call that goes out in May of each year**
- **How will this data be used? Will agencies use it to coordinate where to invest resources to obtain a global, continuous climate record?**