



Schweizerische Eidgenossenschaft  
Confédération suisse  
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Eidgenössisches Departement des Innern EDI  
Bundesamt für Meteorologie und Klimatologie MeteoSchweiz



EUMETSAT  
**CM SAF**  
CLIMATE MONITORING

 **Met Office**  
Hadley Centre

**Deutscher Wetterdienst**  
Wetter und Klima aus einer Hand



# Climate Service, Climate Monitoring, Downstream Applications

**A. Duguay-Tetzlaff, L. Good, N. Selbach, J. Kaiser**



# General remarks

- Satellite data now cover several decades, so are becoming more attractive for climate science and services
- Benefits of satellite observations for climate services:
  - Exist in areas that are poorly observed
  - Provide observations difficult or expensive to observed in situ
  - Near-real-time observations – many in situ data not available for weeks/months
  - Images are good communication tools
  - One sensor measuring large areas compared with many sensors used in situ. Helpful for consistency.



# Down to the end user

## Sonnendach «Solar roof» Switzerland



Avenue de la Paix 7bis  
1202 Genève

Eignung: Hervorragend

Entweder Solarstrom im Wert von bis zu 1'200  
n...

Solarwärme für 3 % weniger Heizkosten.

## Medienspiegel Klima 22.4.2019

Dienstag, 23. April 2019

Zwei der Hauptthemen von letzter Woche:

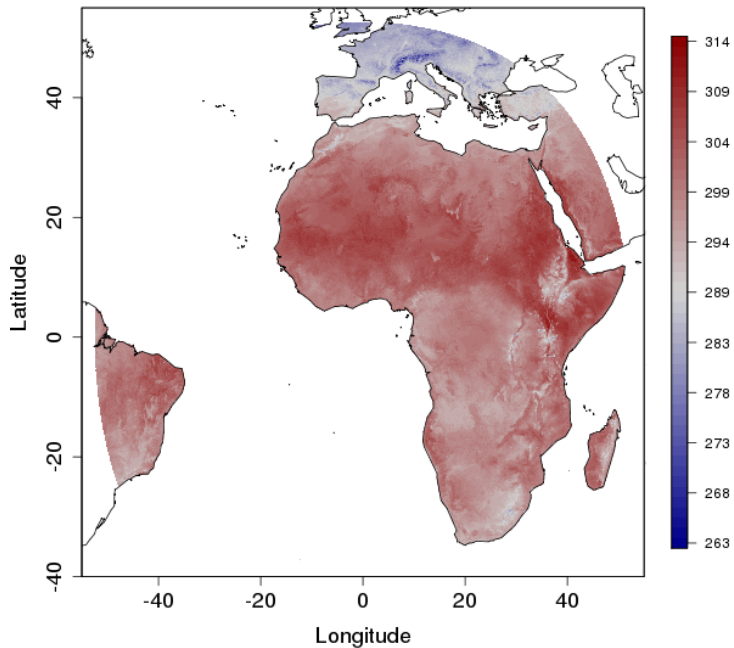
- Energiewende / Potential für die Landwirtschaft: Solarenergie auf Hausdächern ([www.sonnendach.ch](http://www.sonnendach.ch))
- Binnenschifffahrt braucht Unterstützung



# What about other variables?

## Land Surface Temperature

SUMET Land Surface Temperature, CM SAF, 1991- 2015 (K)

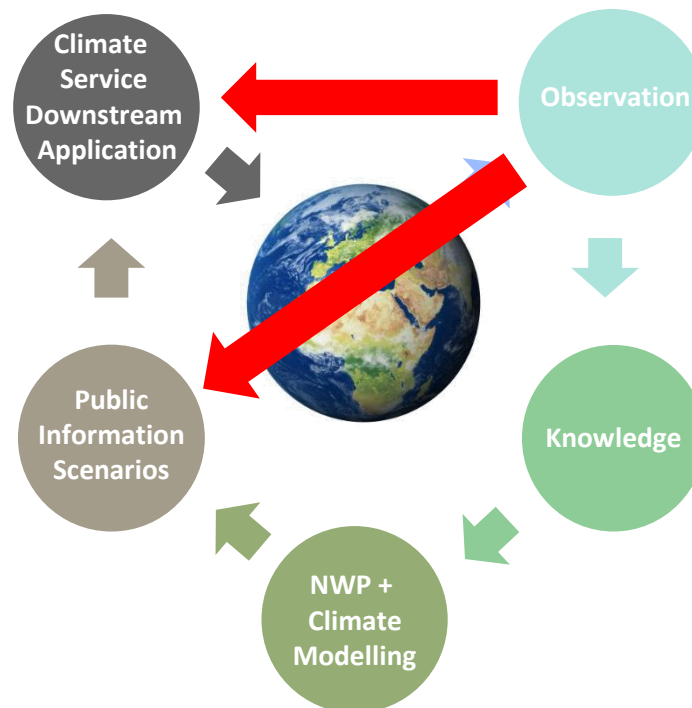


#167588379

since 1991, hourly data, 0.05° grid



# How to foster the use of CM SAF data in climate services, for climate monitoring and for downstream applications?







# Some notes ...

Bring  
data to  
the user

User case  
studies

Climate  
Information  
data

Knowledge  
transfer

Data &  
Services

Flood of data

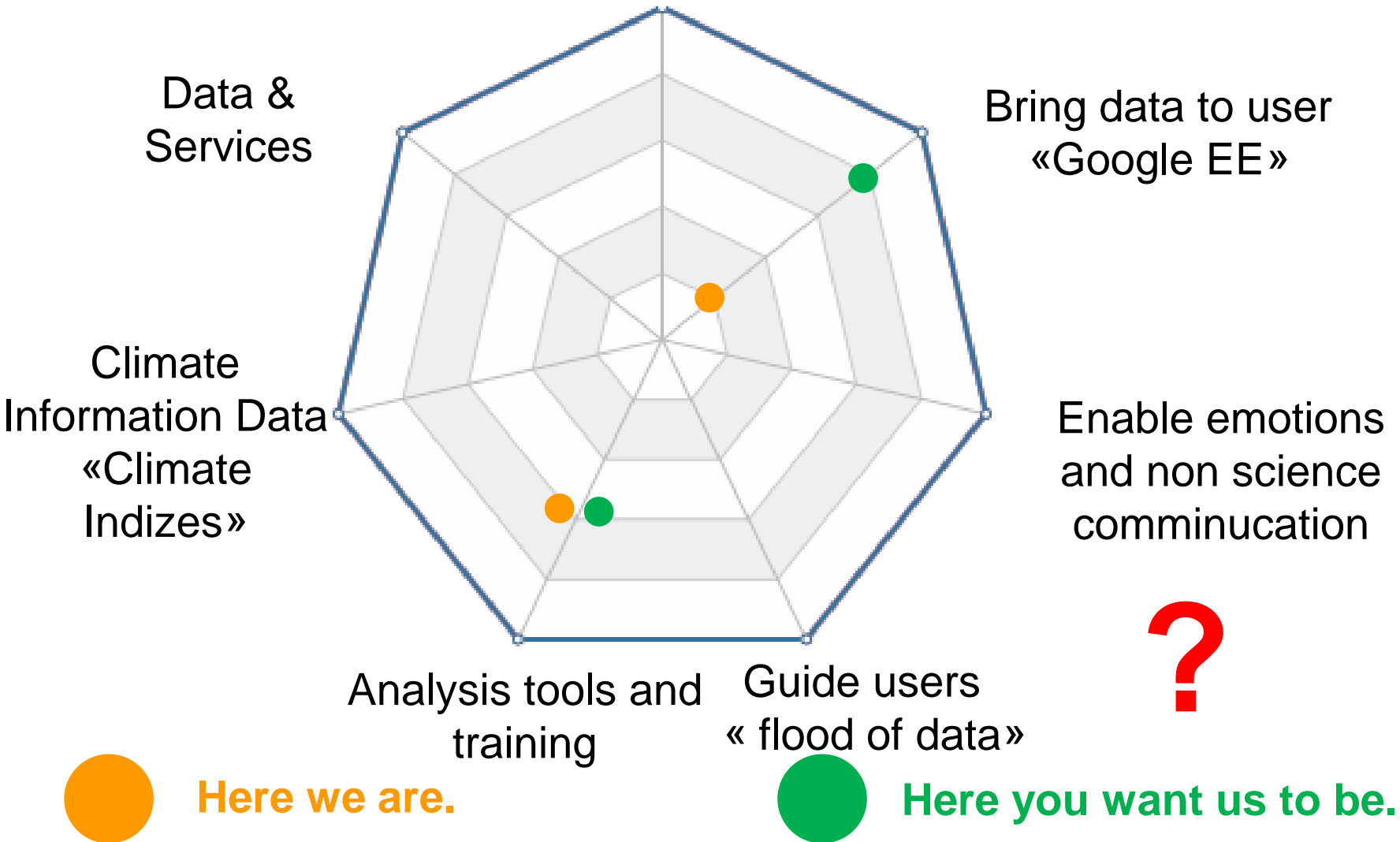
Training  
and  
tools

Enable  
emotions and  
non science  
communic,



# Group discussion

Demonstrate possible applications  
“User Case Studies”







## Group discussion

- How do you use CM SAF data for your climate service or downstream application?
- Do you have concrete suggestions on how we can improve?
- What do you think is the key to advance the use of CM SAF data for climate services or applications?



# Session

## Climate Service, Climate Monitoring, Downstream Applications

**16:30 to 17:00**      **Presentations**

**17:00 to 17:45**      **Discussion in three groups**

**17:45 to 18:00**      **Summery group discussion**