



**Spectrafy™**  
solar spectral sensors

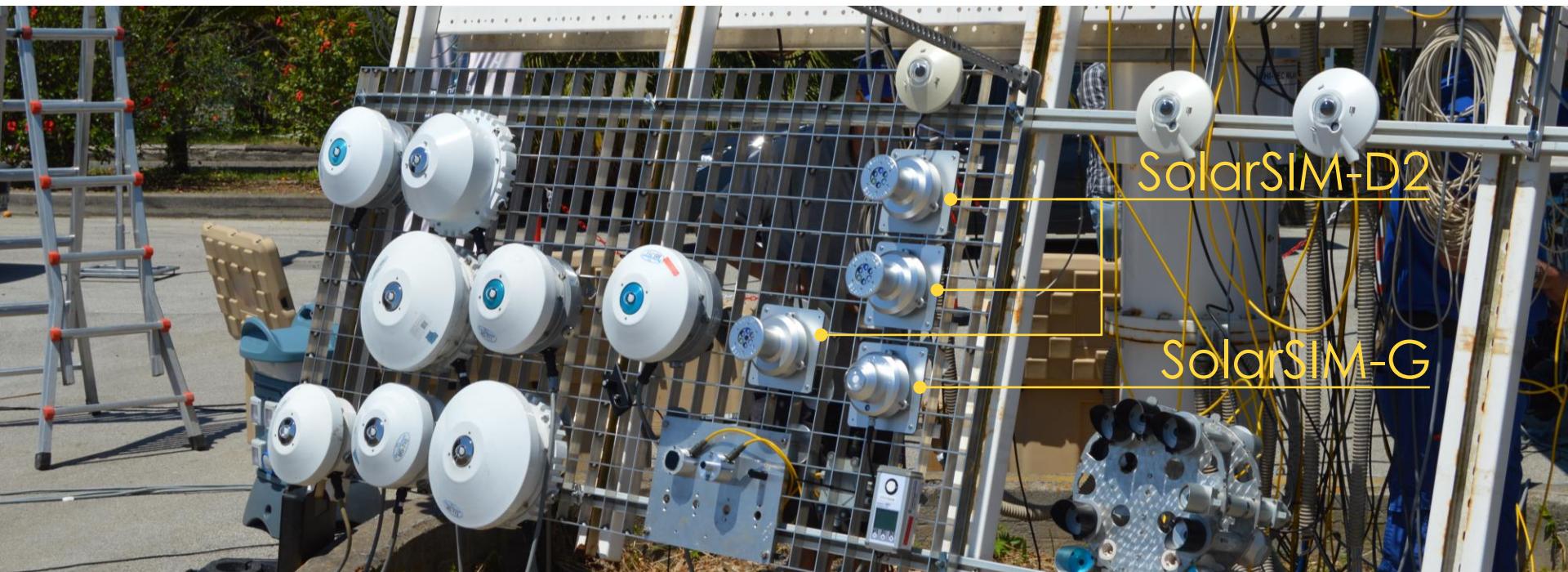
SolarSIM-G & SolarSIM-D2  
7<sup>th</sup> International Spectroradiometer Intercomparison  
12<sup>th</sup> -16<sup>th</sup> June 2017

# 7<sup>th</sup> international broadband/spectral intercomparison

when: 12<sup>th</sup> -16<sup>th</sup> June 2017

where: ENEL Green Power, Catania, Italy

website: <http://www.intercomparison.eu>



# The SolarSIMs

The SolarSIMs combine simple rugged hardware, and advanced software to make it easy and affordable to measure the sun's spectrum and various atmospheric parameters, in addition to traditional, broadband irradiance.



## SolarSIM-D2

- total and custom-range DNI
- spectral DNI (280-4000nm)
- precipitable water vapor
- aerosol optical depth
- temp, pressure
- ozone



## SolarSIM-G

- total and custom-range GHI
- spectral GHI (280-4000nm)
- relative humidity
- temp, pressure

# table of contents

## Spectral irradiance intercomparison

SolarSIM-G

Slides 3 to 38

SolarSIM-D2

Slides 39 to 72

## Broadband irradiance intercomparison

SolarSIM-G

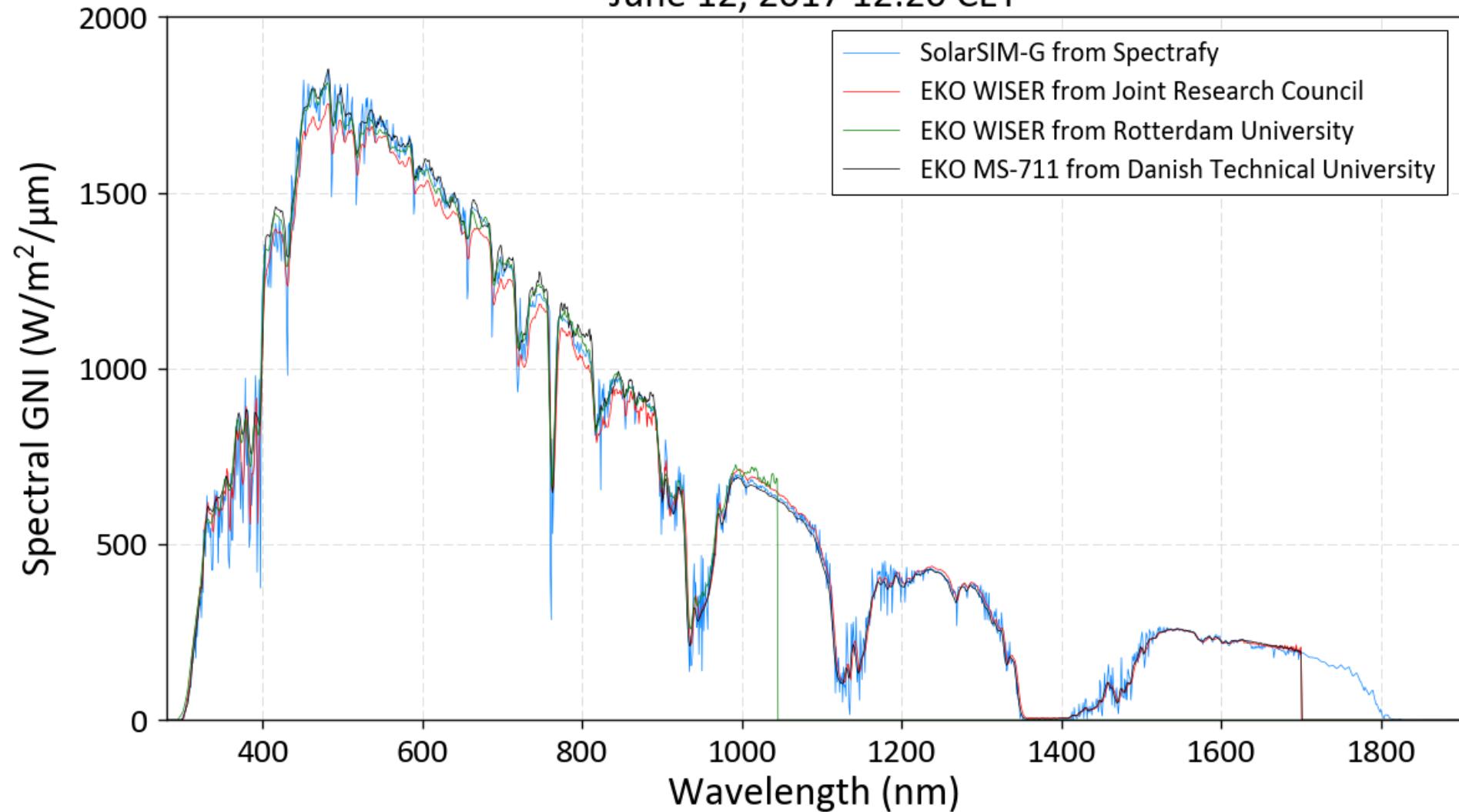
Slides 74 to 77

SolarSIM-D2

Slides 79 to 82

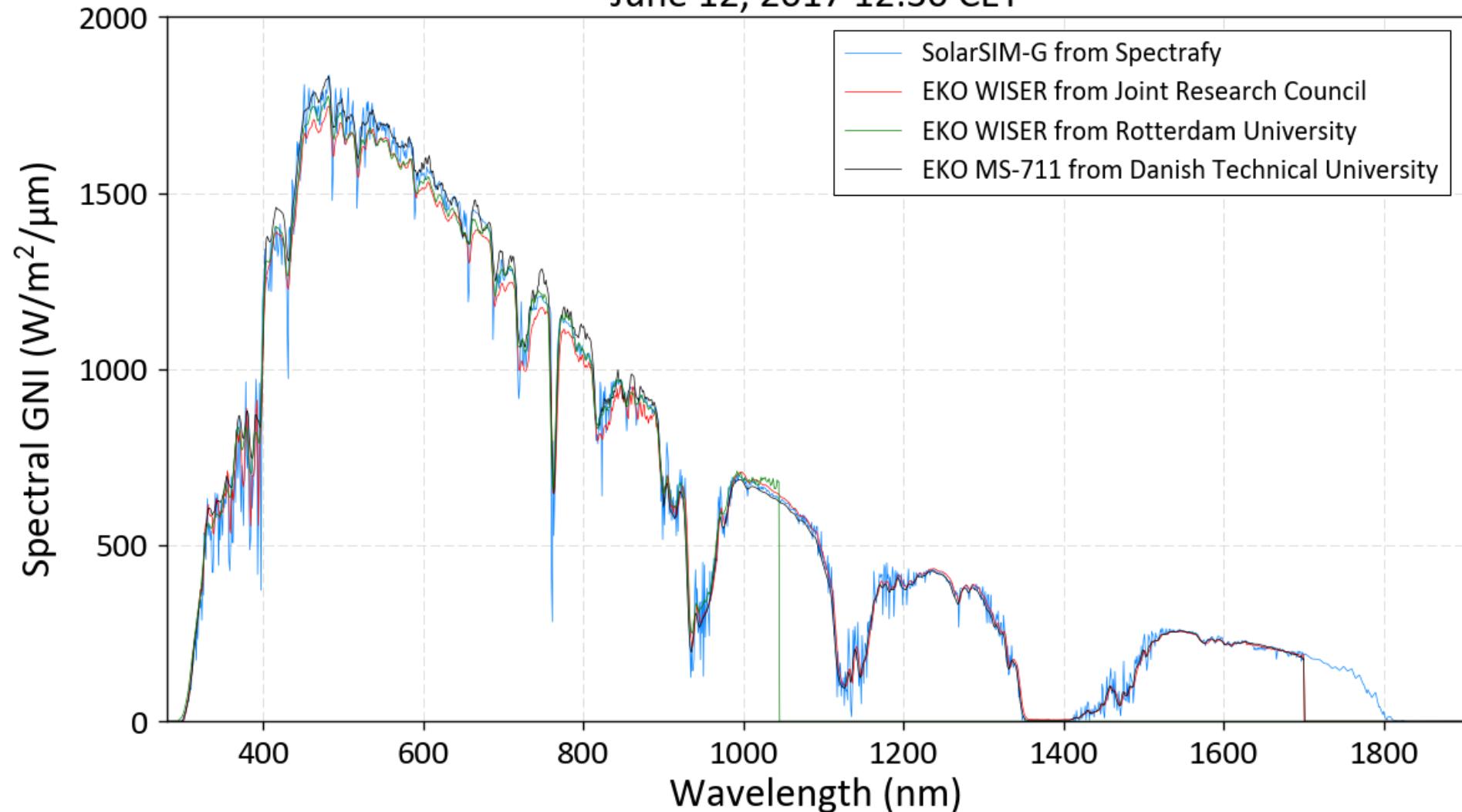
# SolarSIM-G: spectral GNI data

June 12, 2017 12:20 CET



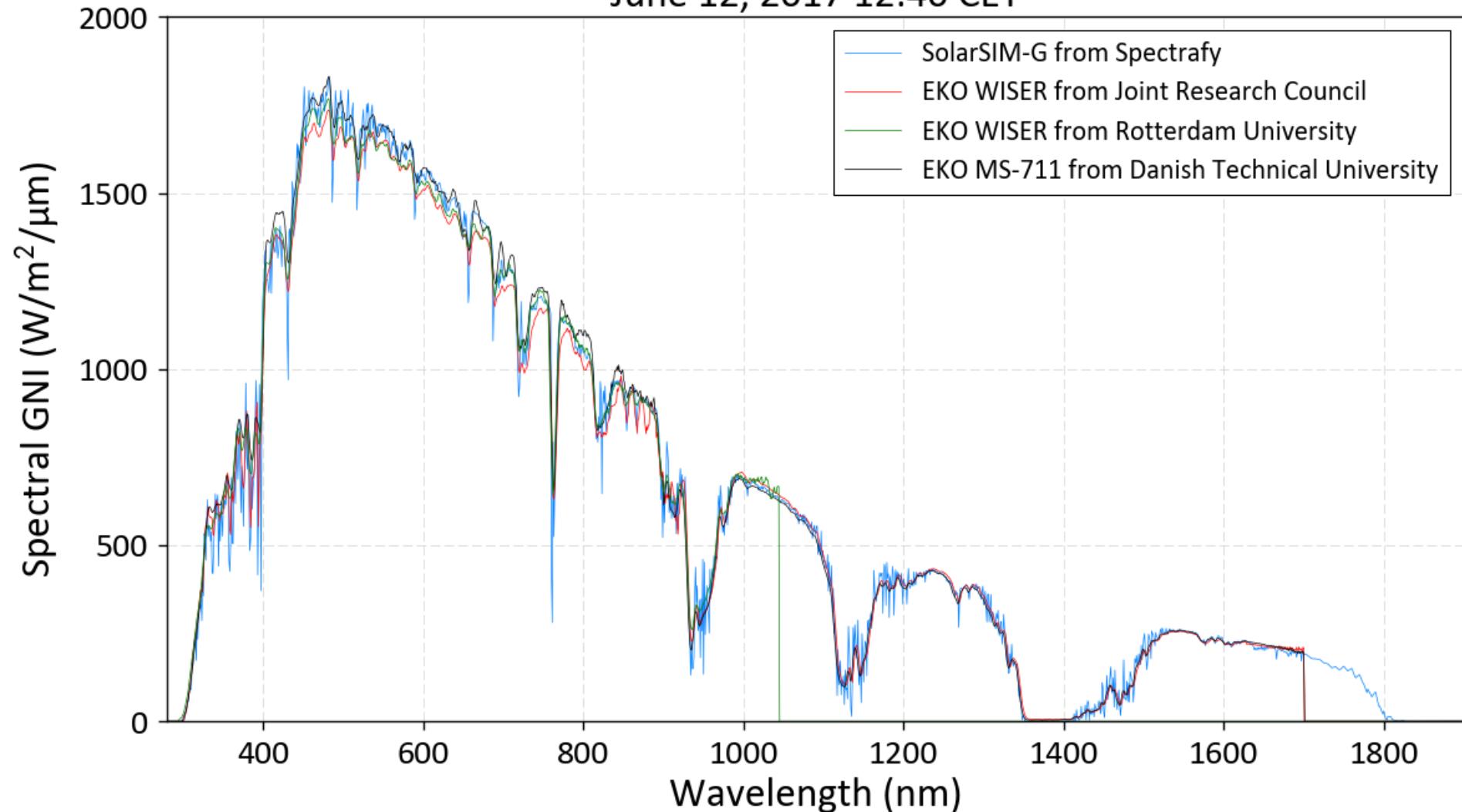
# SolarSIM-G: spectral GNI data

June 12, 2017 12:30 CET



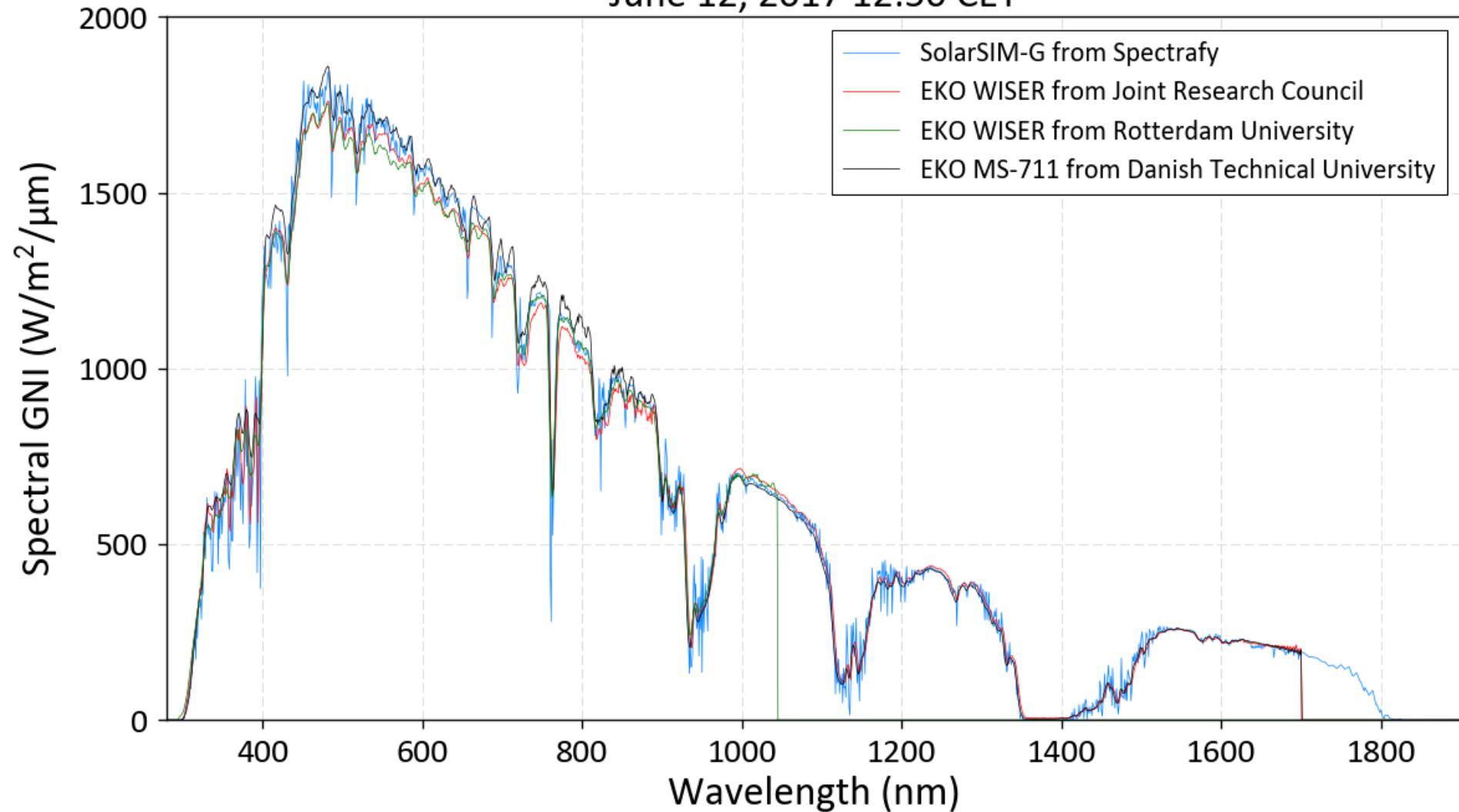
# SolarSIM-G: spectral GNI data

June 12, 2017 12:40 CET



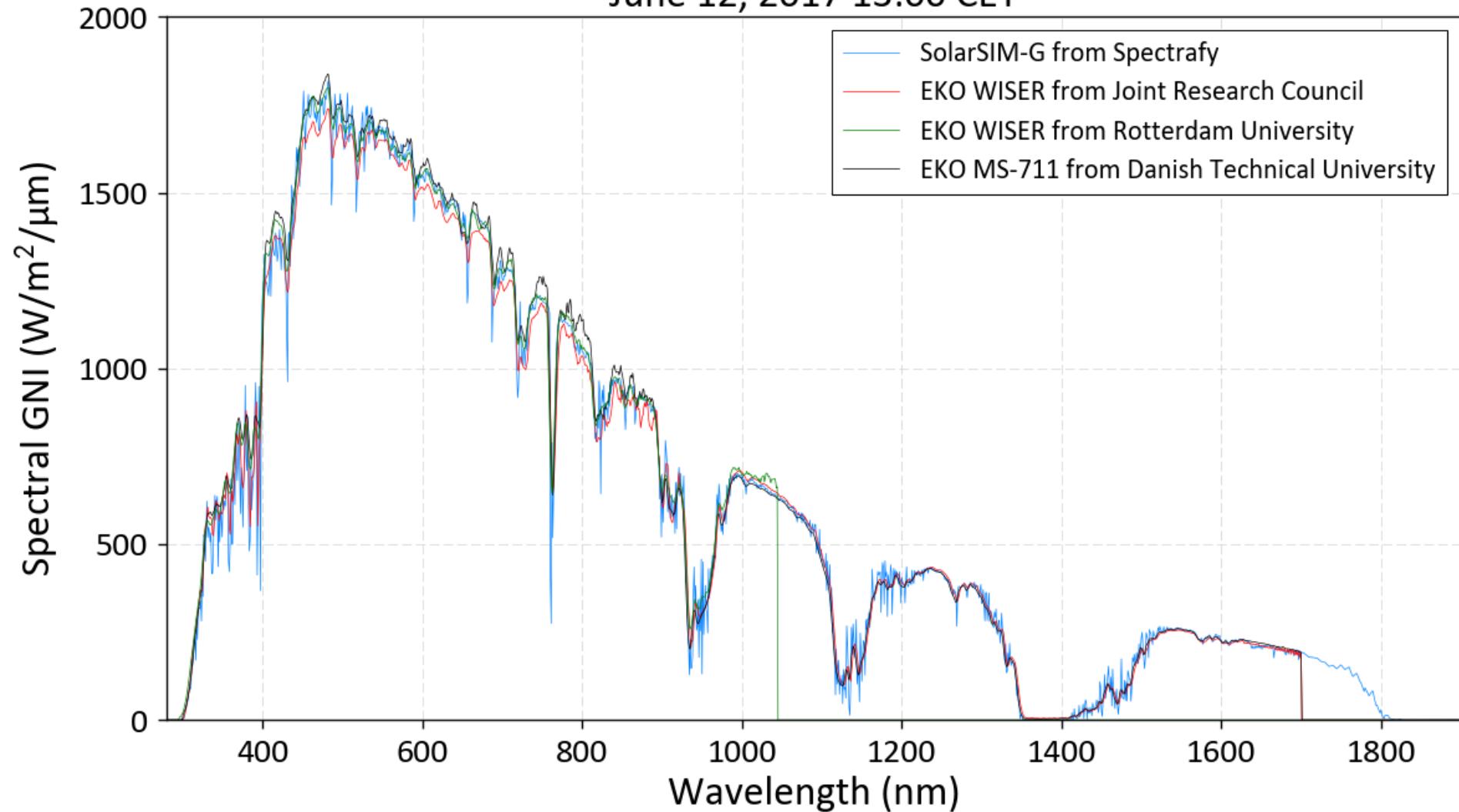
# SolarSIM-G: spectral GNI data

June 12, 2017 12:50 CET



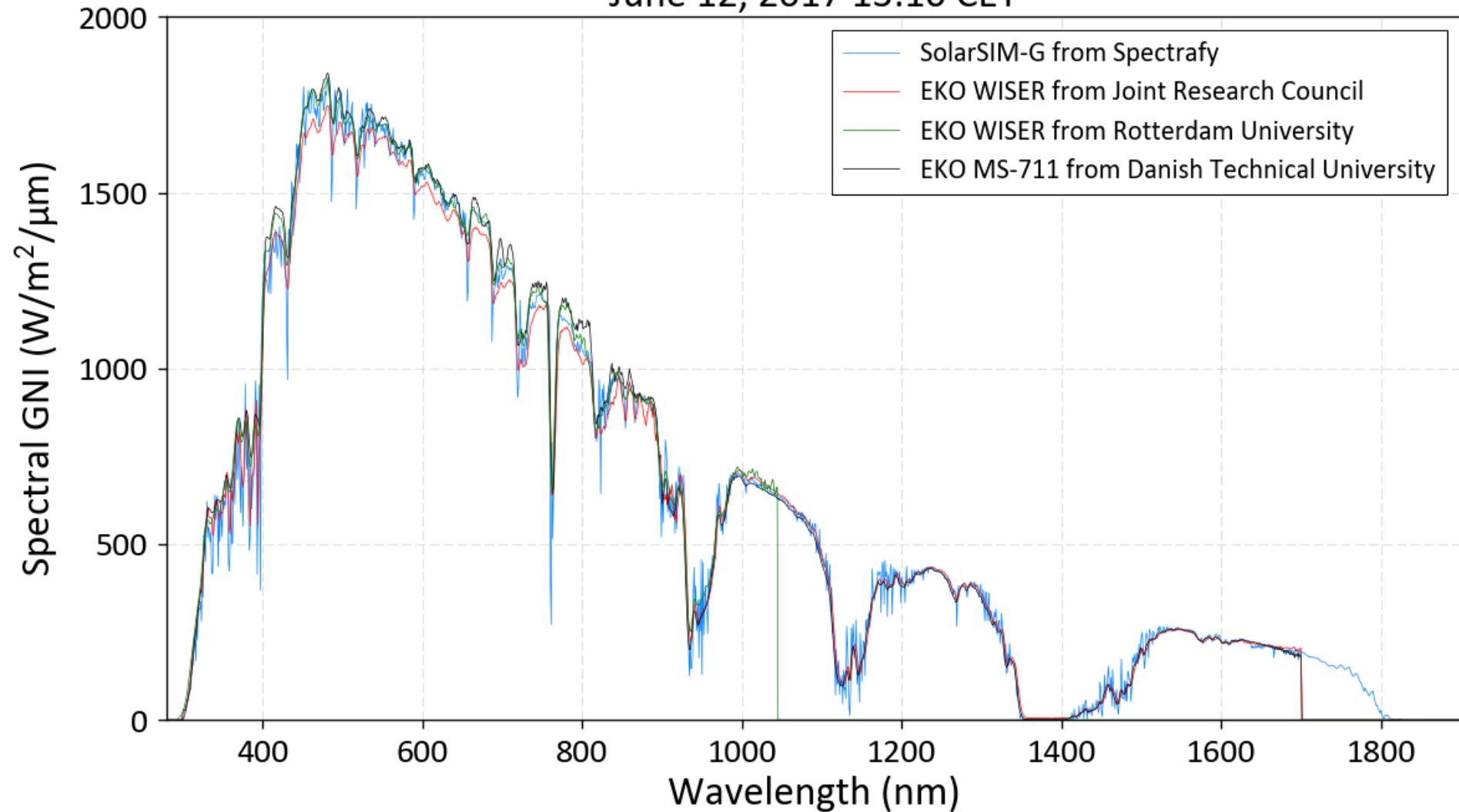
# SolarSIM-G: spectral GNI data

June 12, 2017 13:00 CET



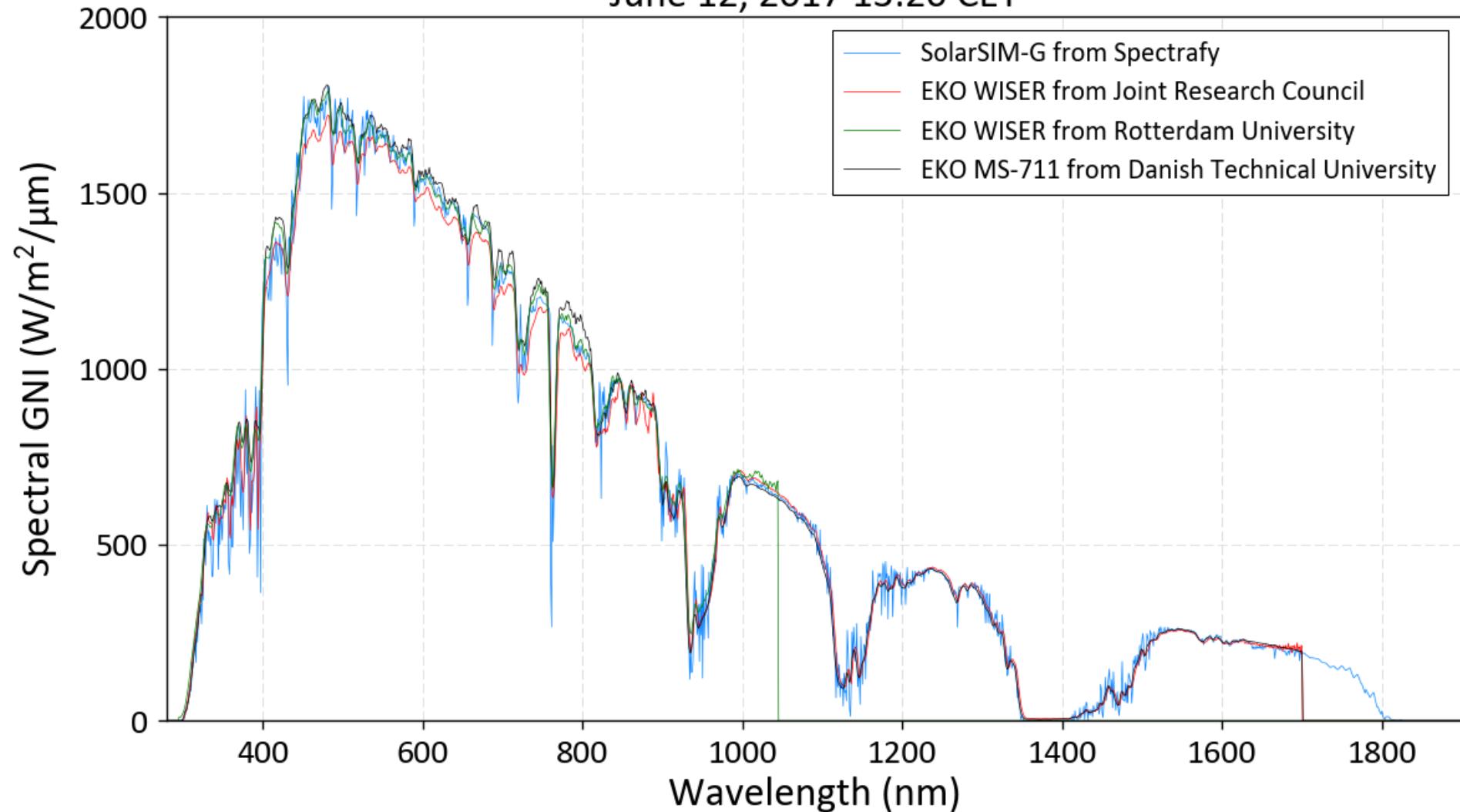
# SolarSIM-G: spectral GNI data

June 12, 2017 13:10 CET



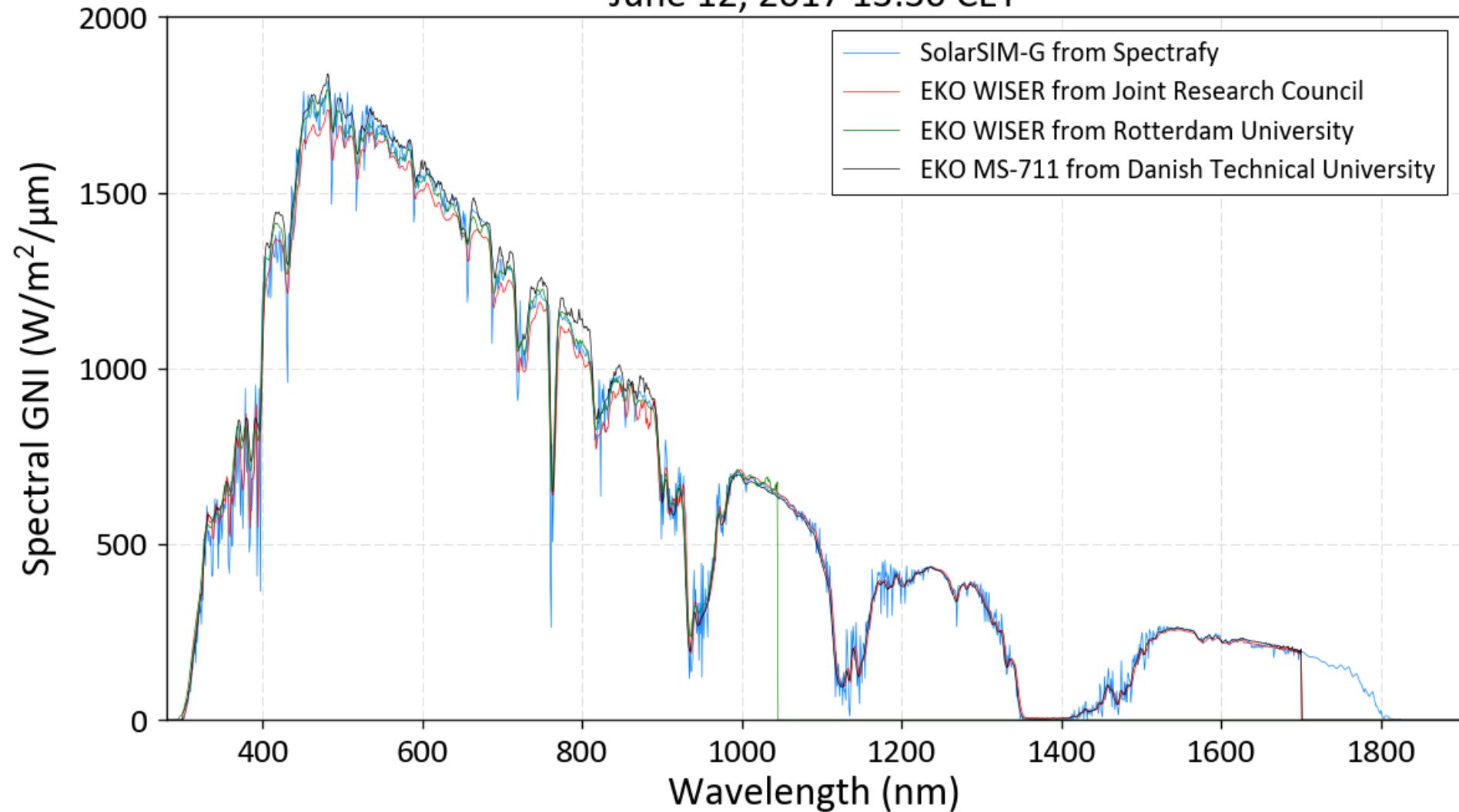
# SolarSIM-G: spectral GNI data

June 12, 2017 13:20 CET



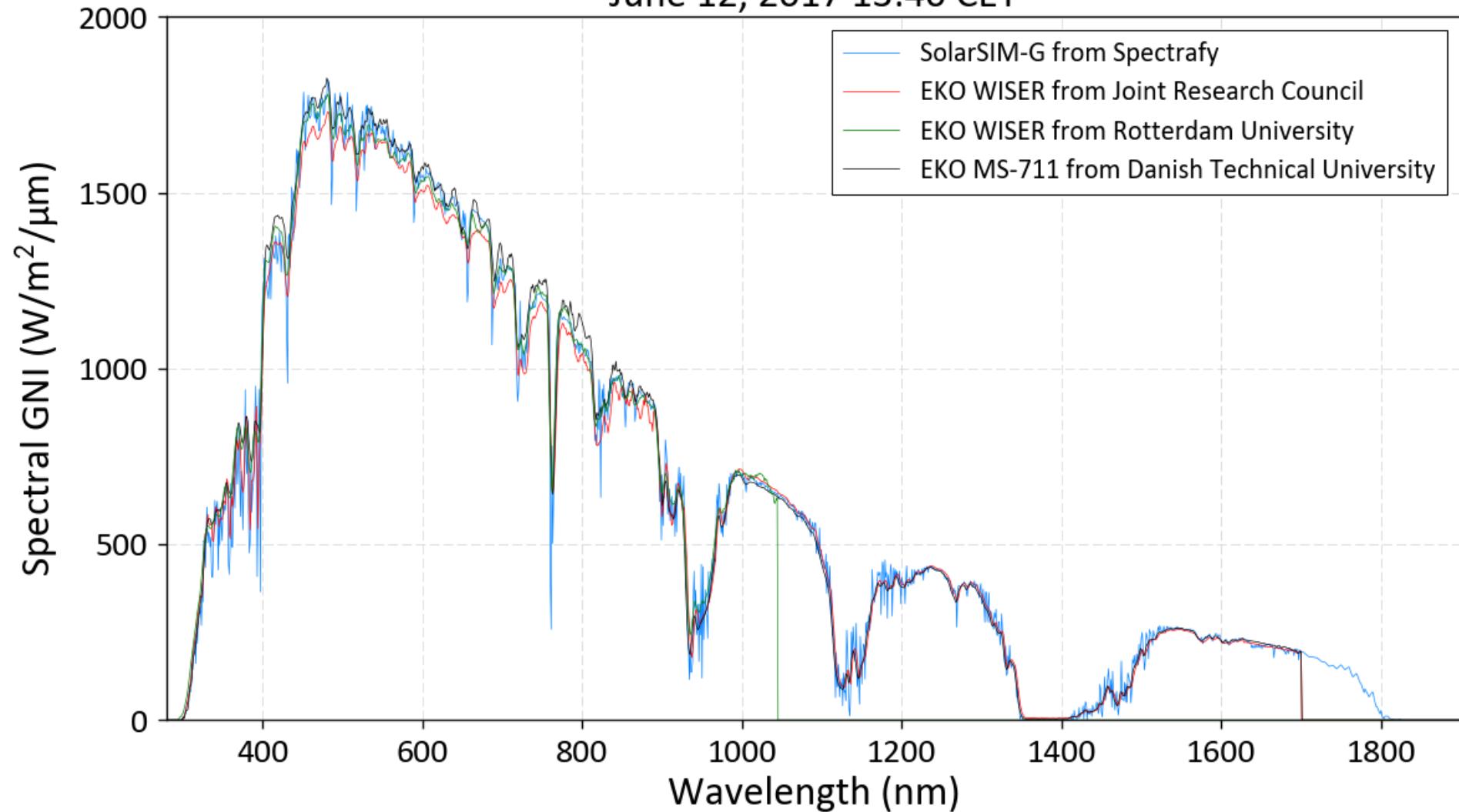
# SolarSIM-G: spectral GNI data

June 12, 2017 13:30 CET



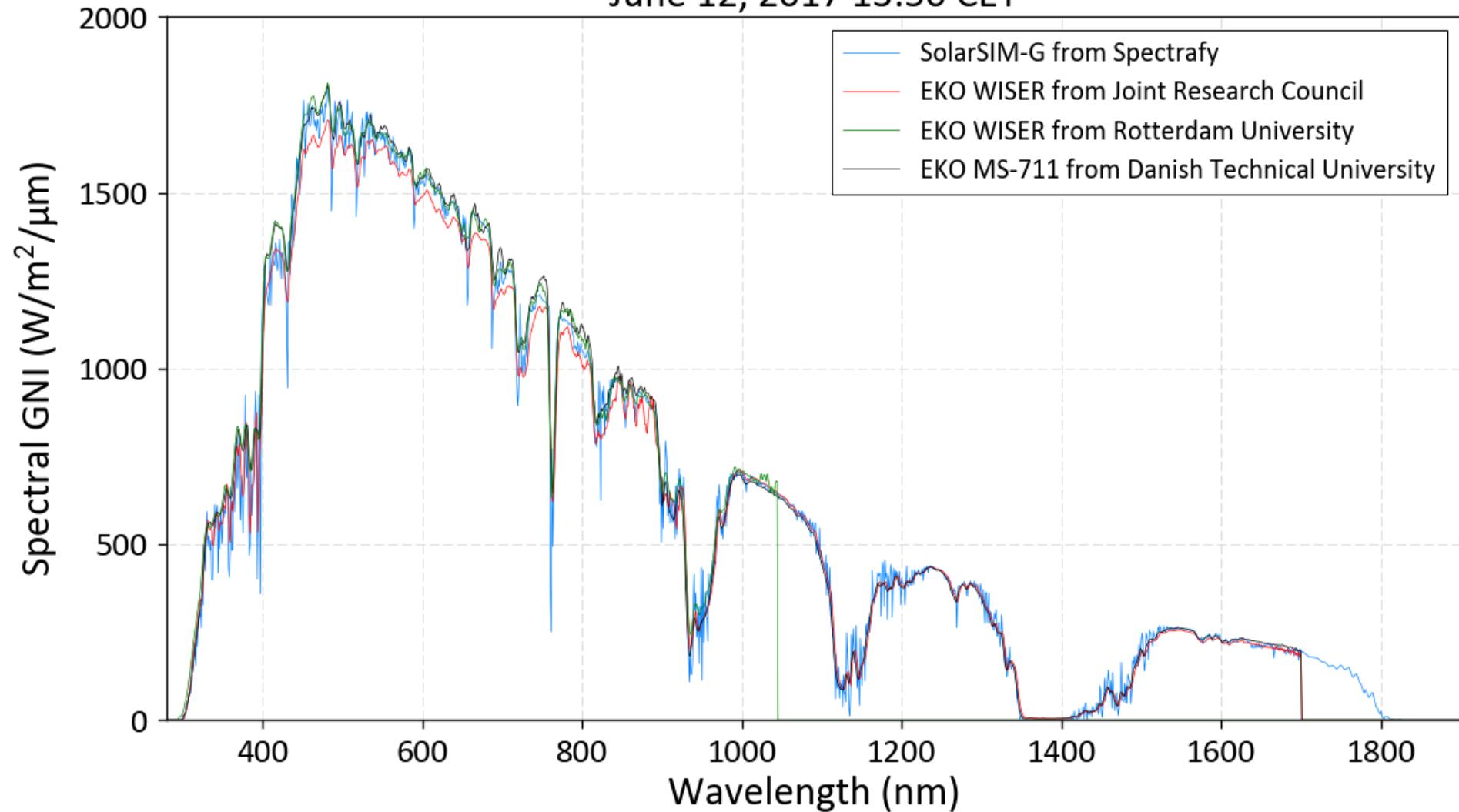
# SolarSIM-G: spectral GNI data

June 12, 2017 13:40 CET



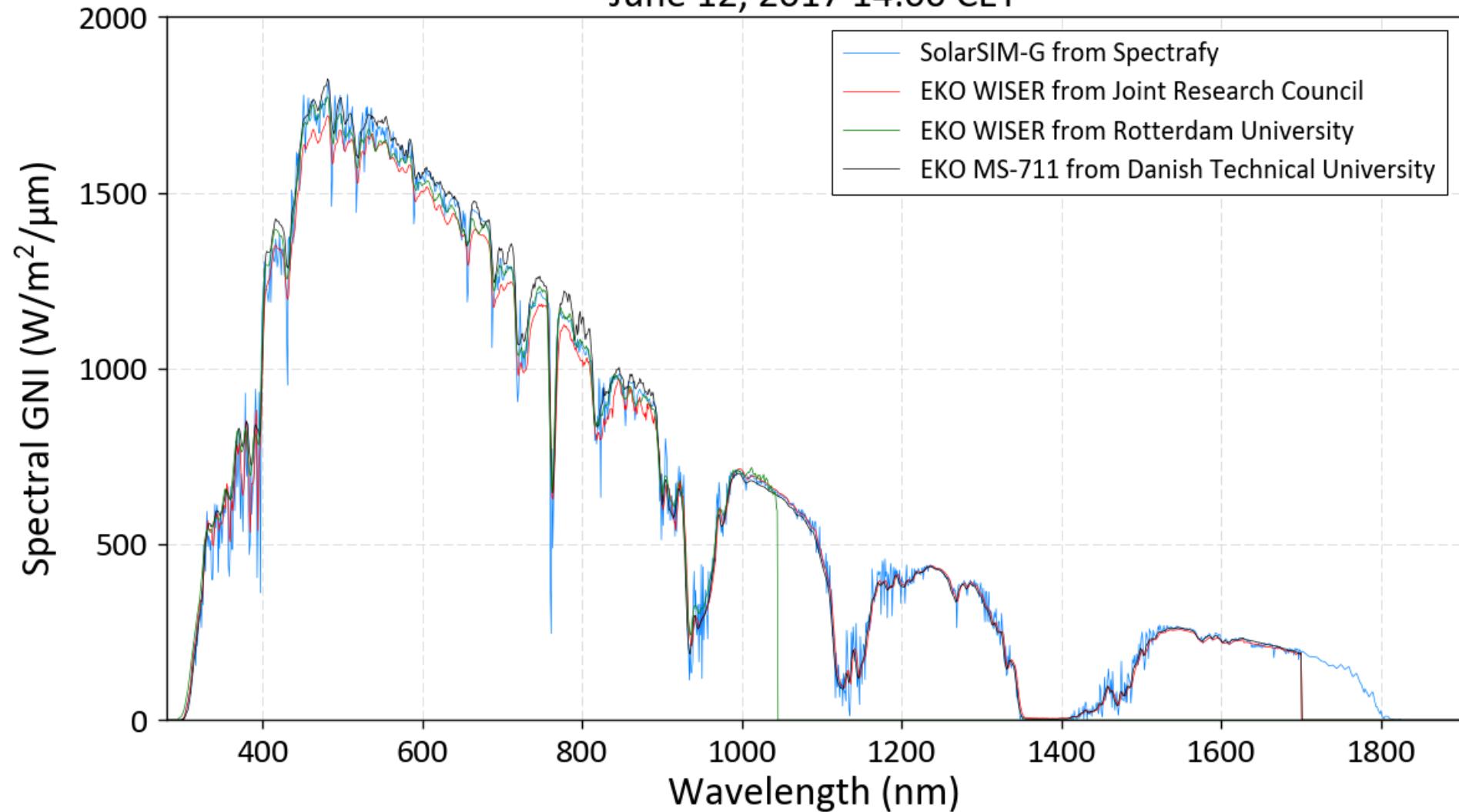
# SolarSIM-G: spectral GNI data

June 12, 2017 13:50 CET



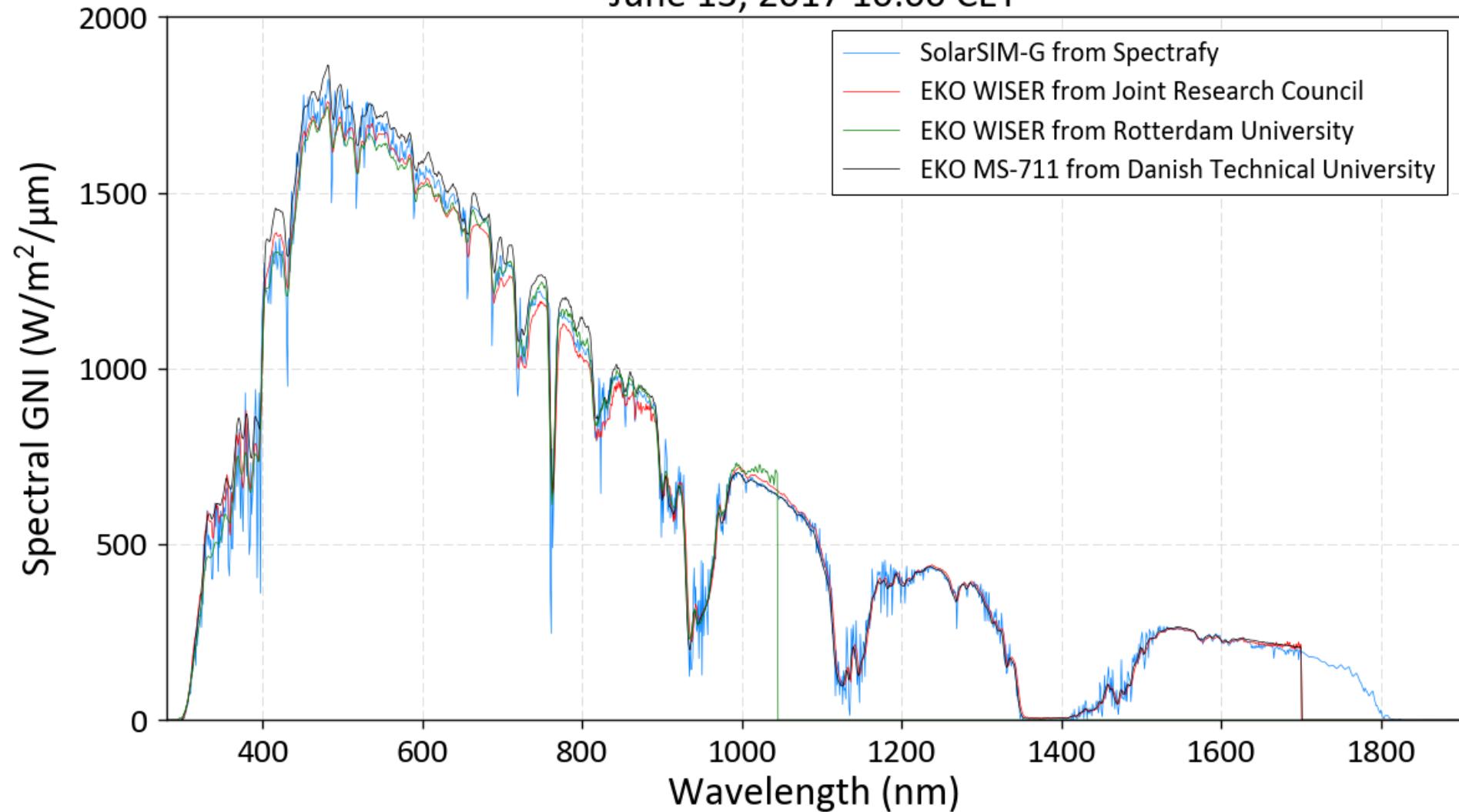
# SolarSIM-G: spectral GNI data

June 12, 2017 14:00 CET



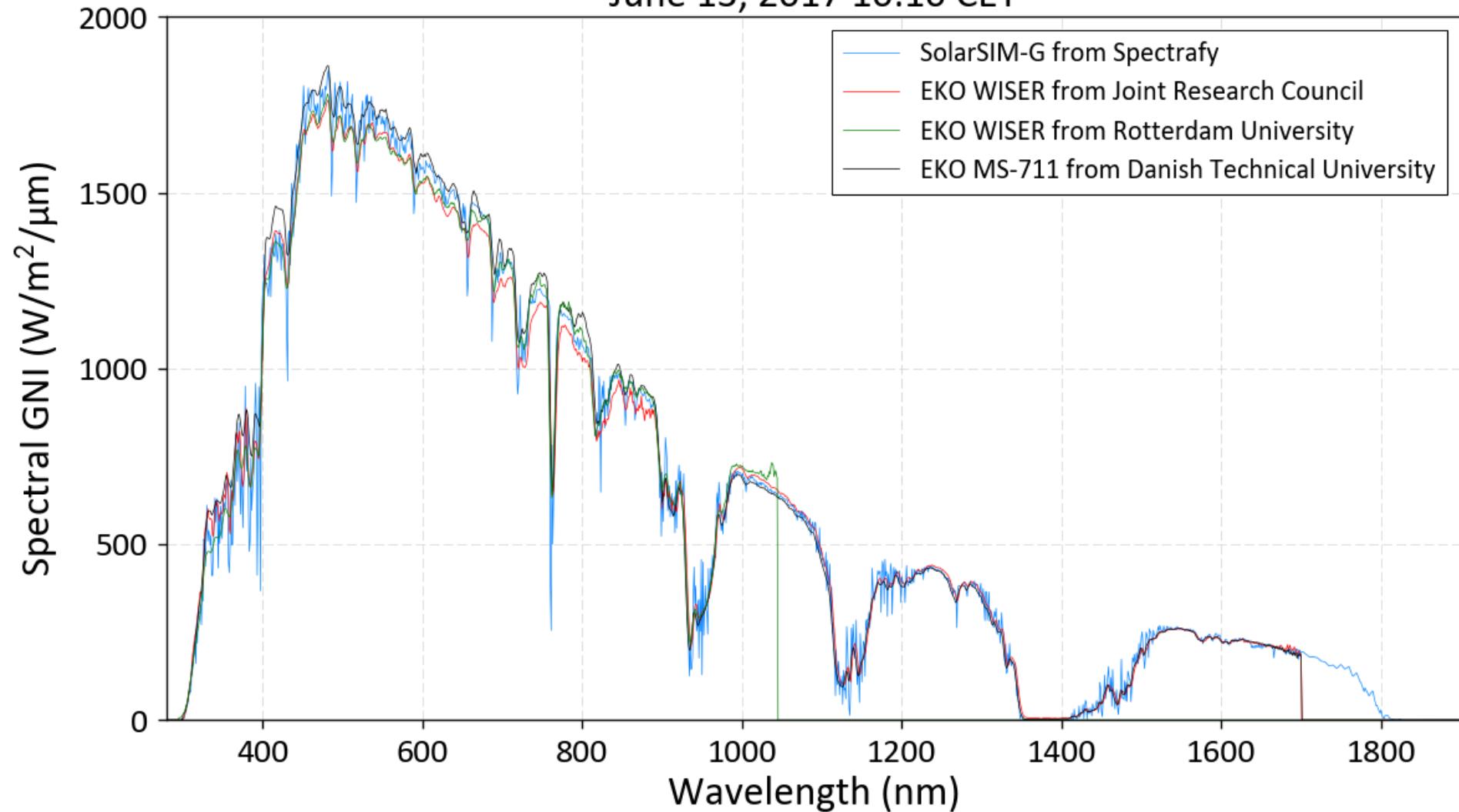
# SolarSIM-G: spectral GNI data

June 13, 2017 10:00 CET



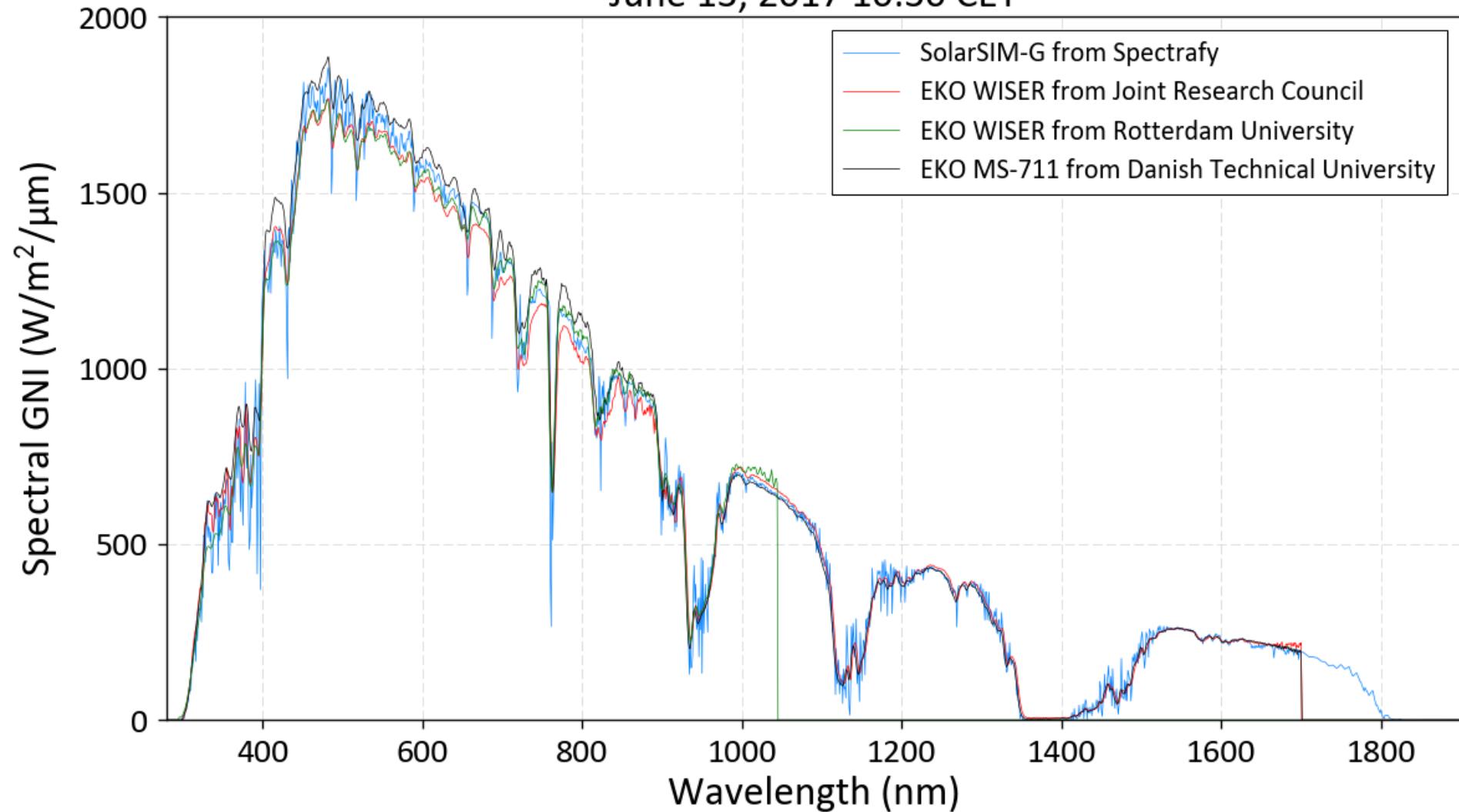
# SolarSIM-G: spectral GNI data

June 13, 2017 10:10 CET



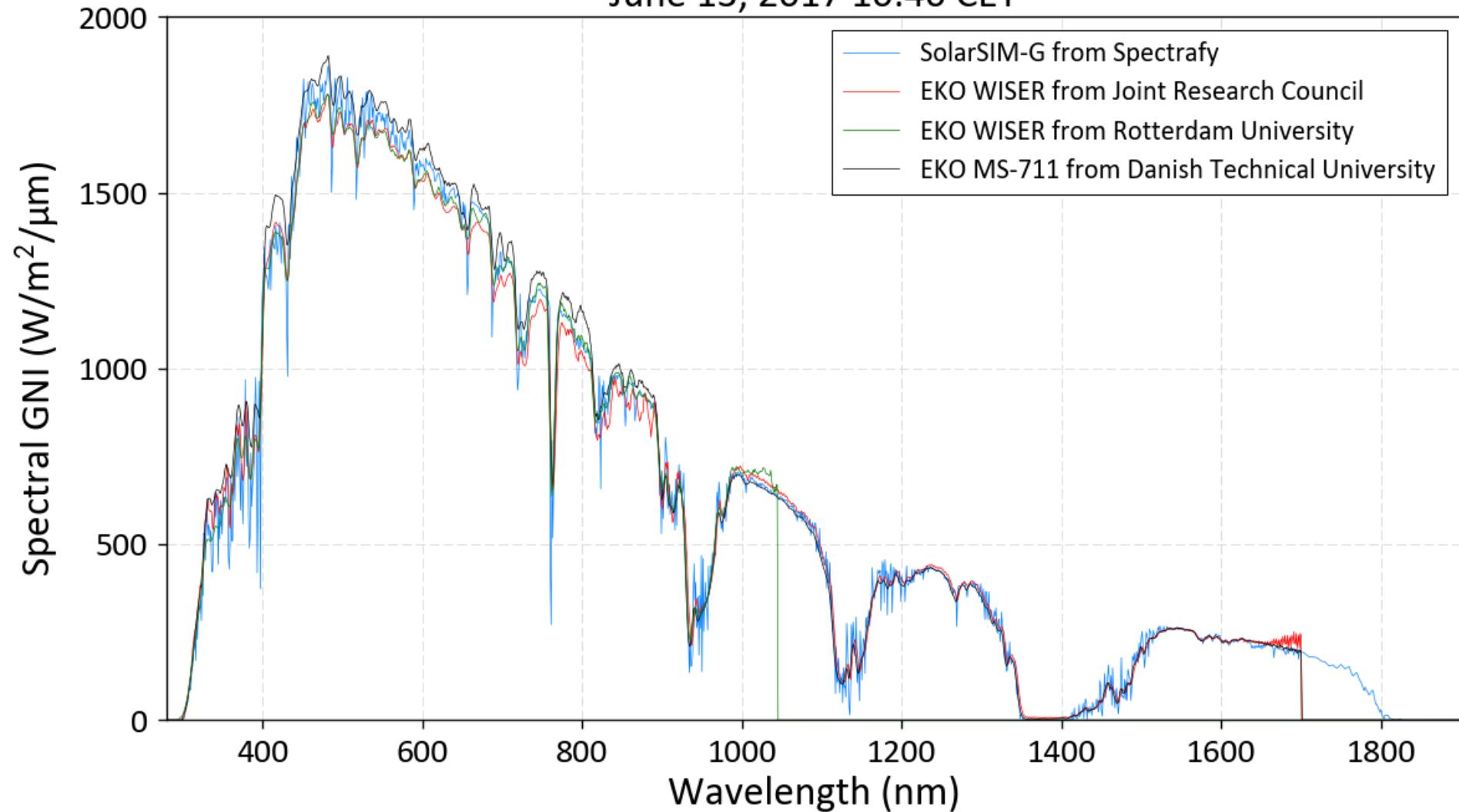
# SolarSIM-G: spectral GNI data

June 13, 2017 10:30 CET



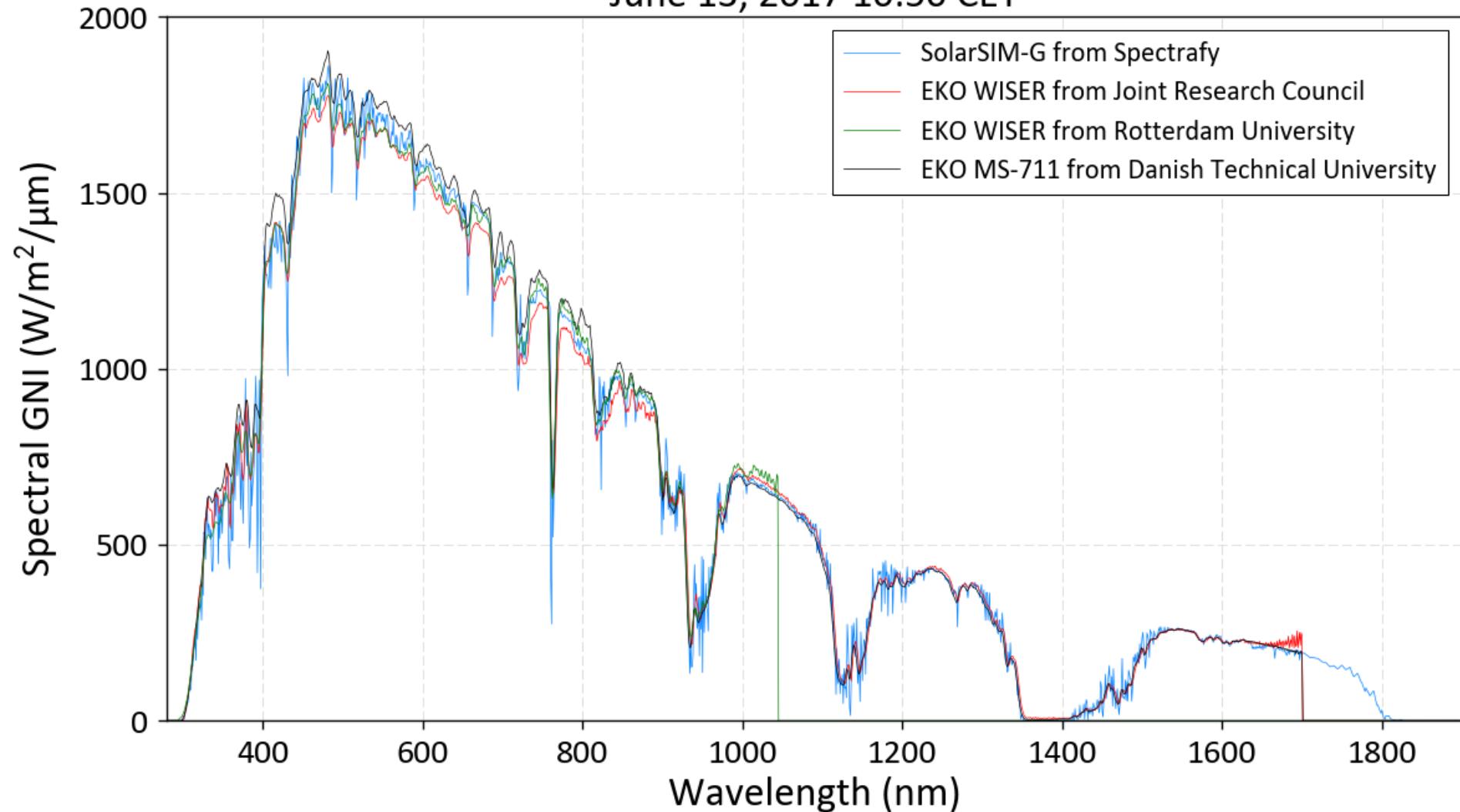
# SolarSIM-G: spectral GNI data

June 13, 2017 10:40 CET



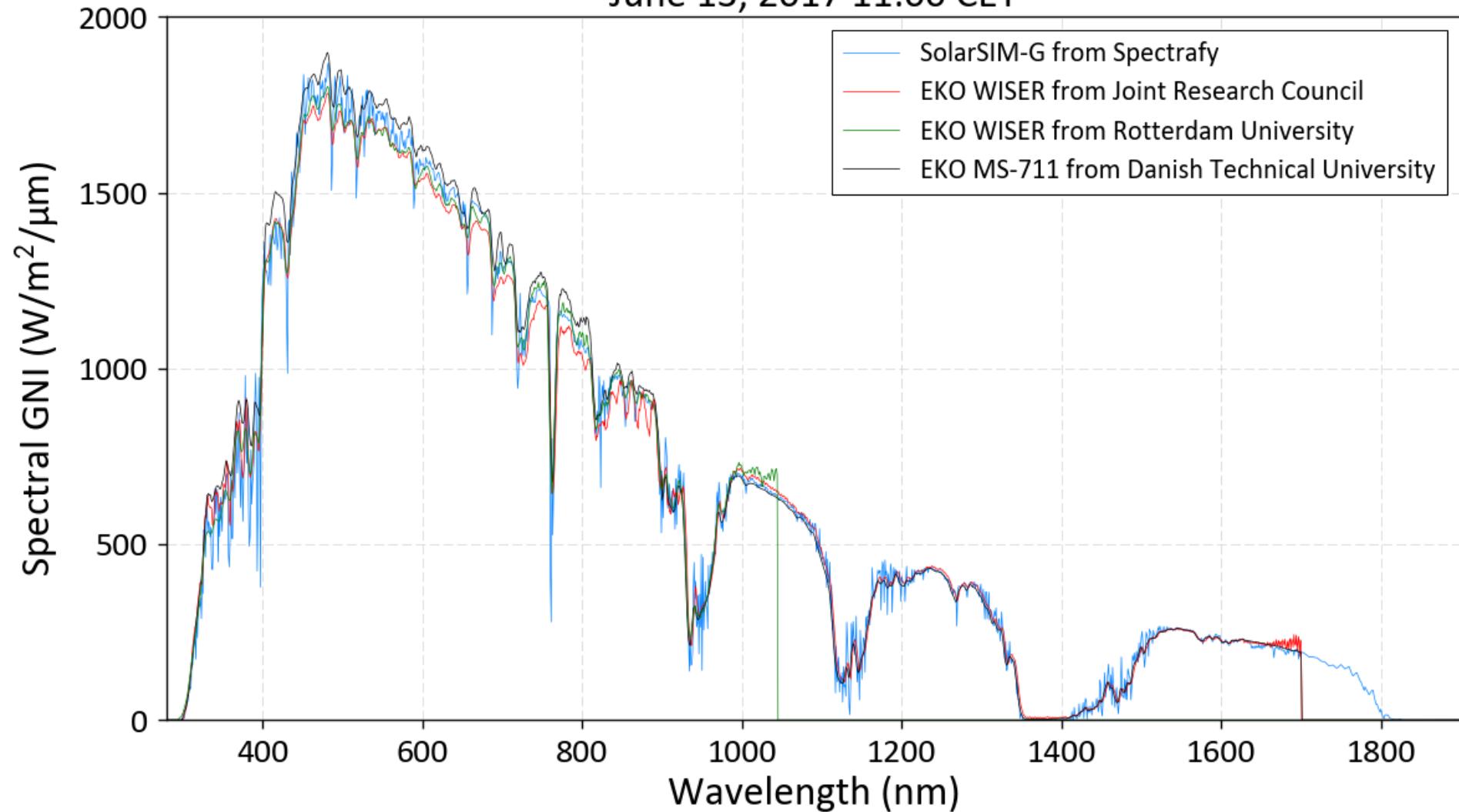
# SolarSIM-G: spectral GNI data

June 13, 2017 10:50 CET



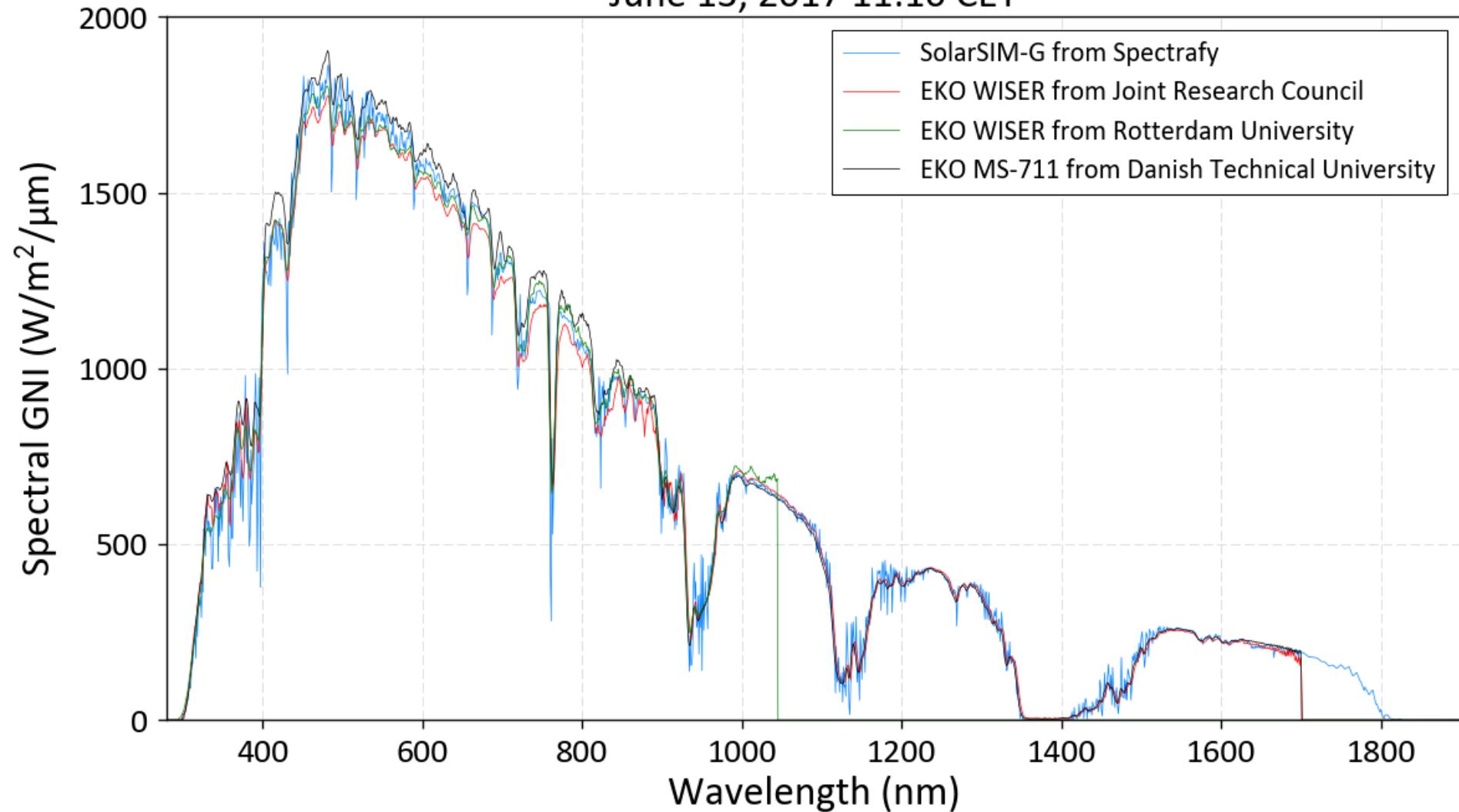
# SolarSIM-G: spectral GNI data

June 13, 2017 11:00 CET



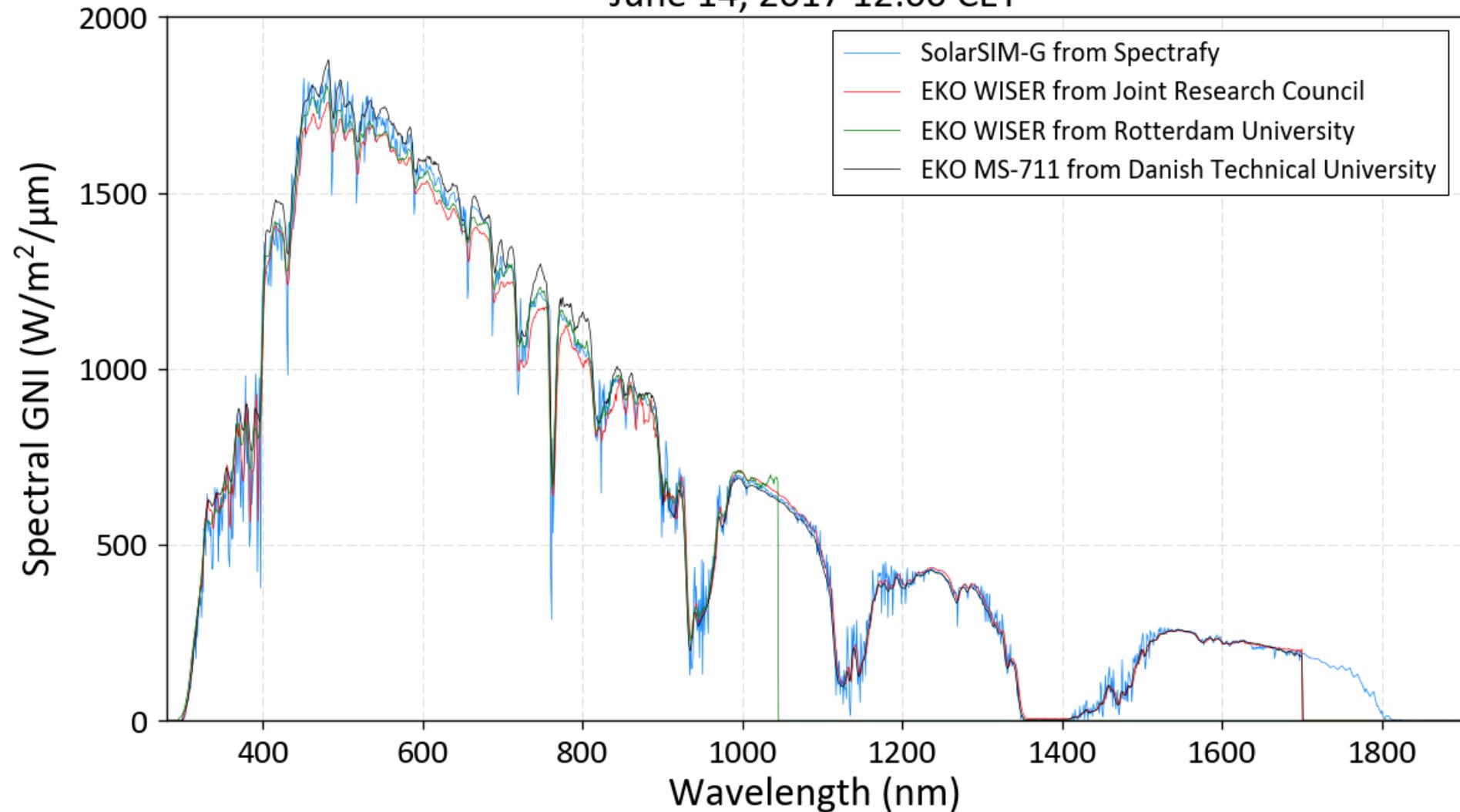
# SolarSIM-G: spectral GNI data

June 13, 2017 11:10 CET



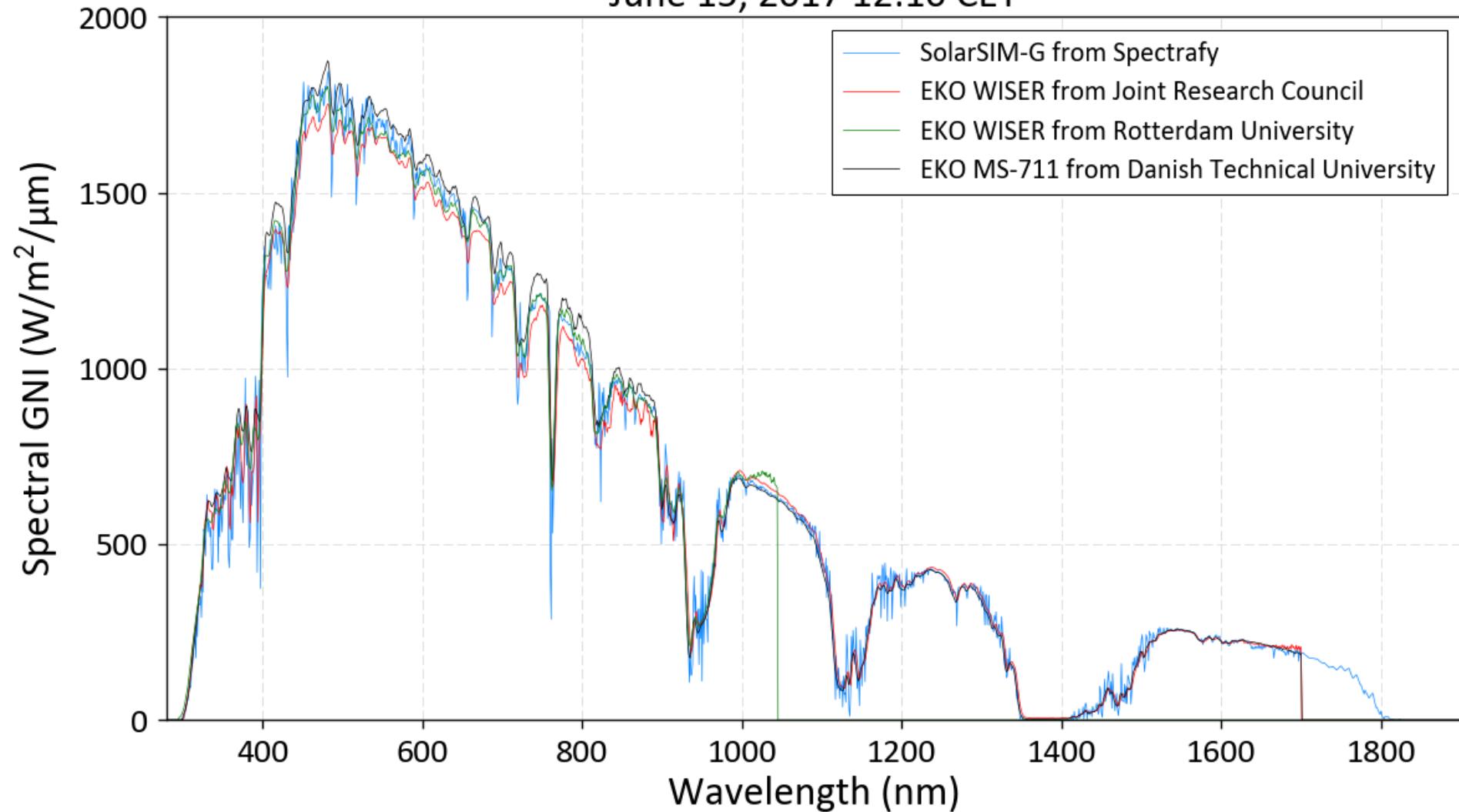
# SolarSIM-G: spectral GNI data

June 14, 2017 12:00 CET



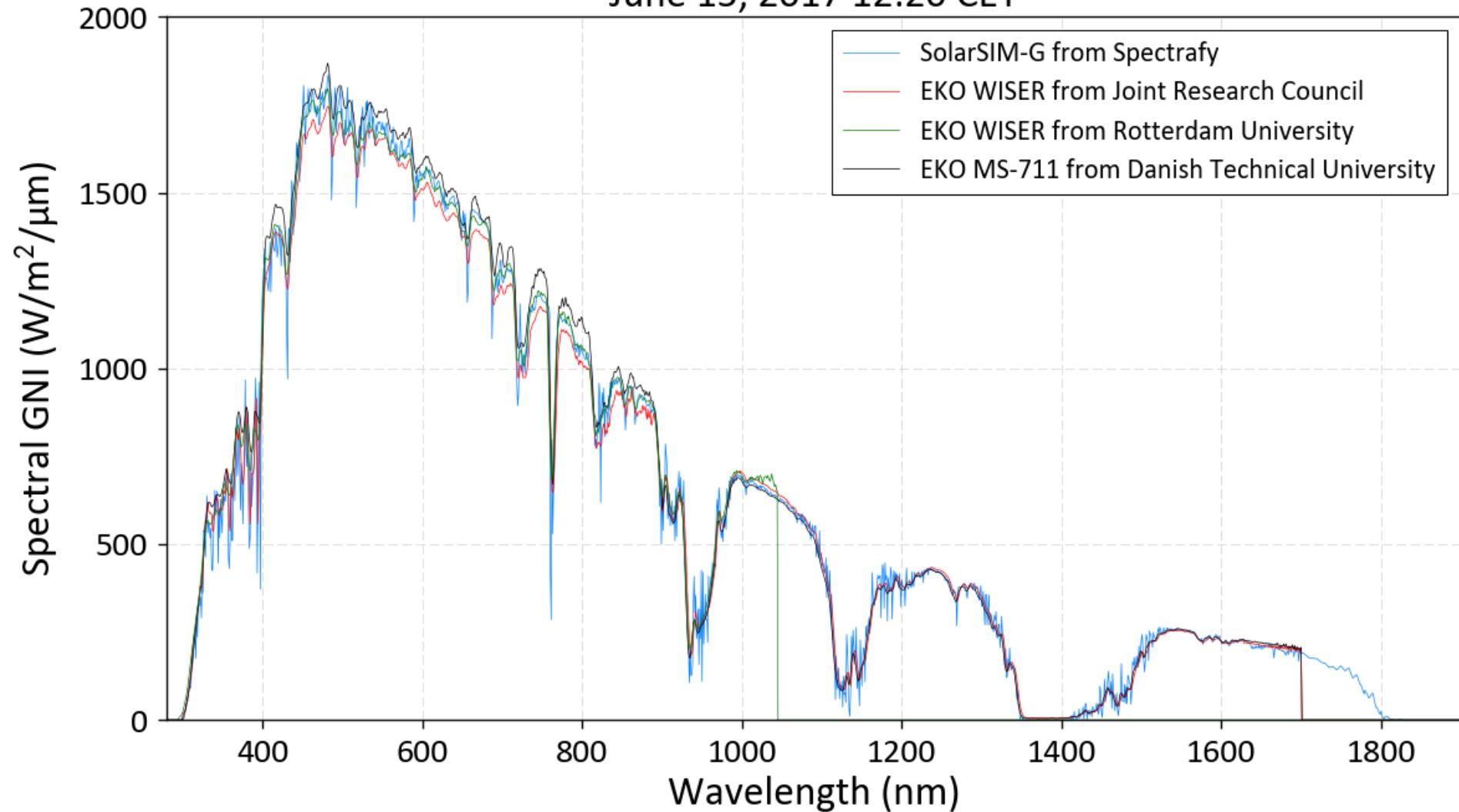
# SolarSIM-G: spectral GNI data

June 15, 2017 12:10 CET



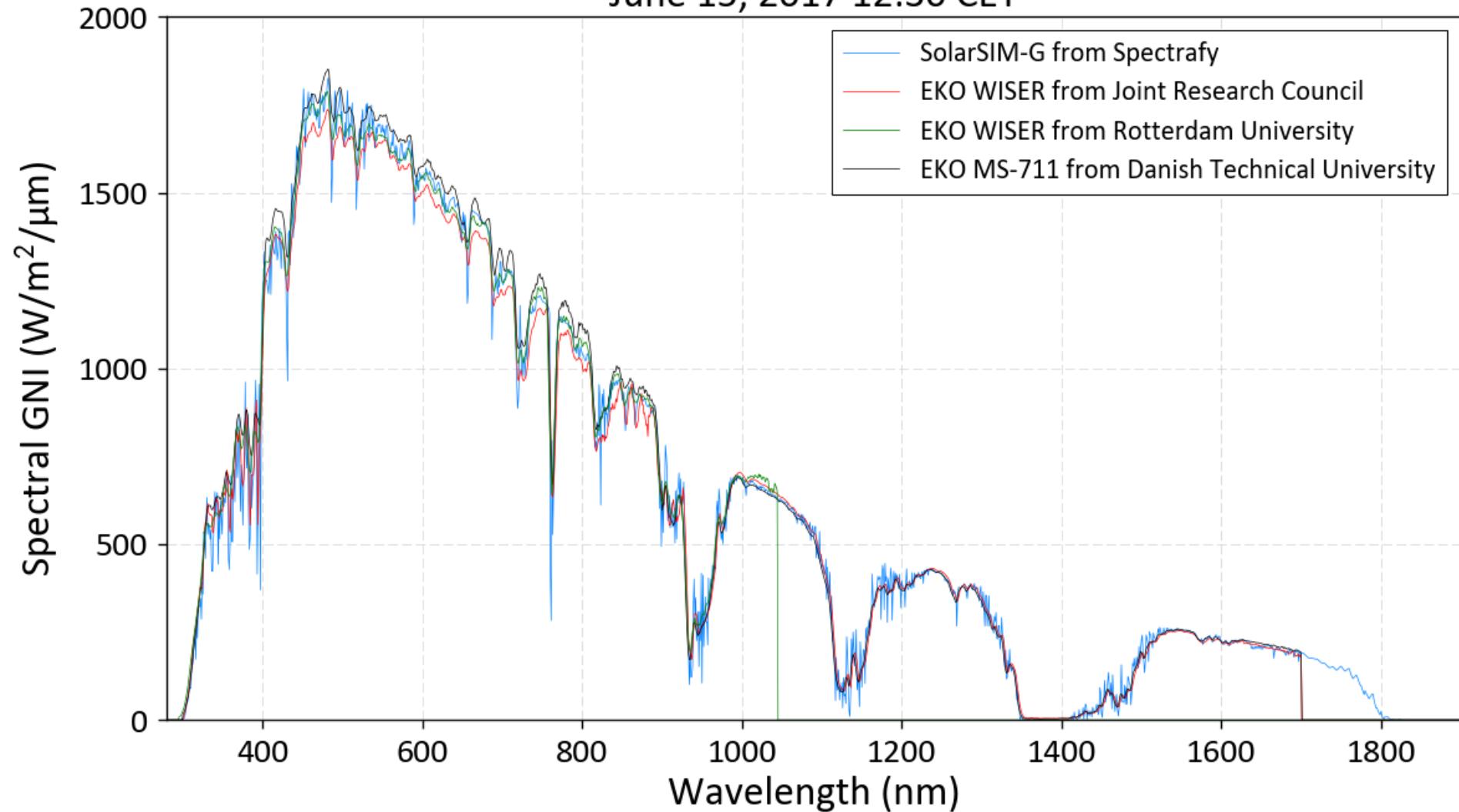
# SolarSIM-G: spectral GNI data

June 15, 2017 12:20 CET



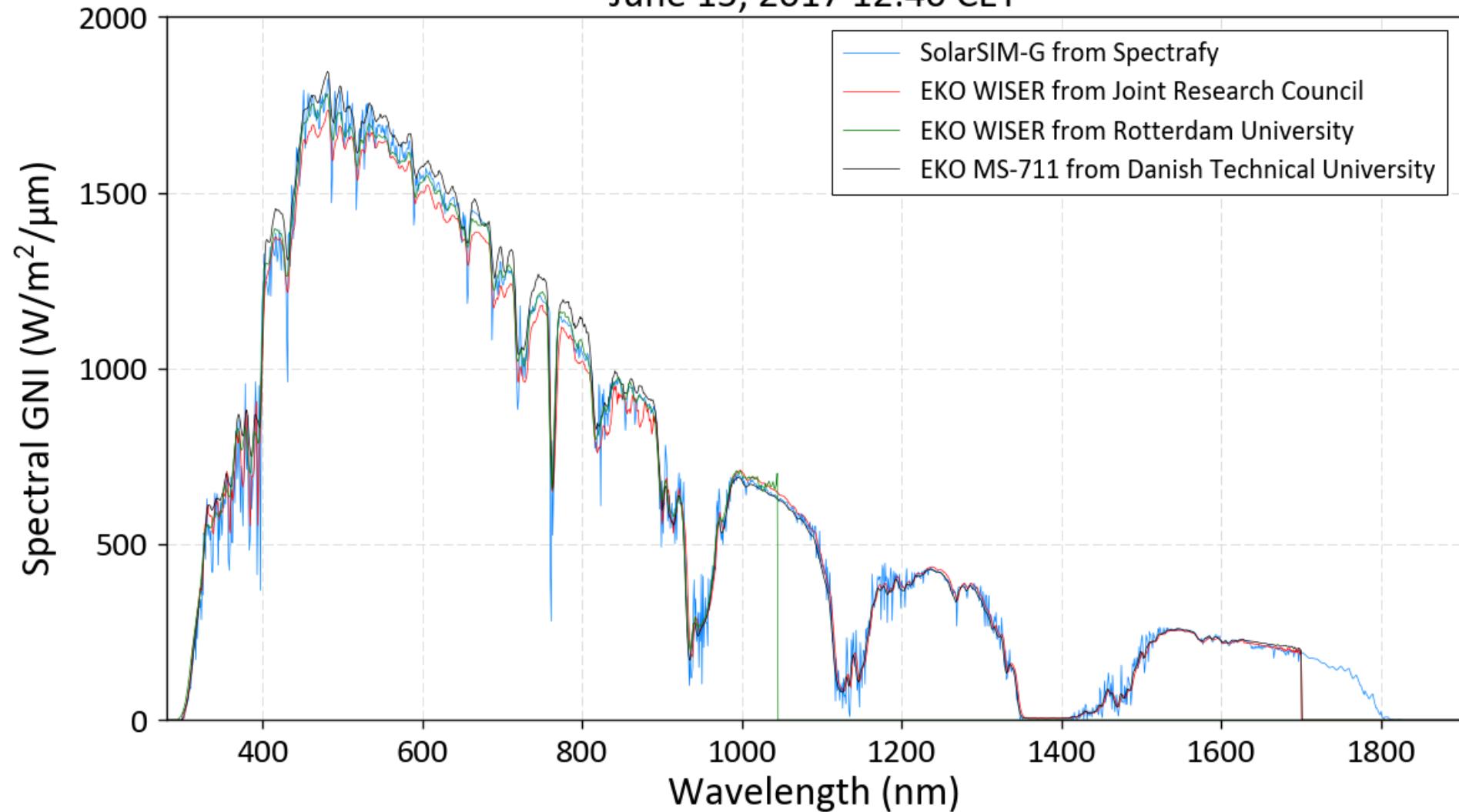
# SolarSIM-G: spectral GNI data

June 15, 2017 12:30 CET



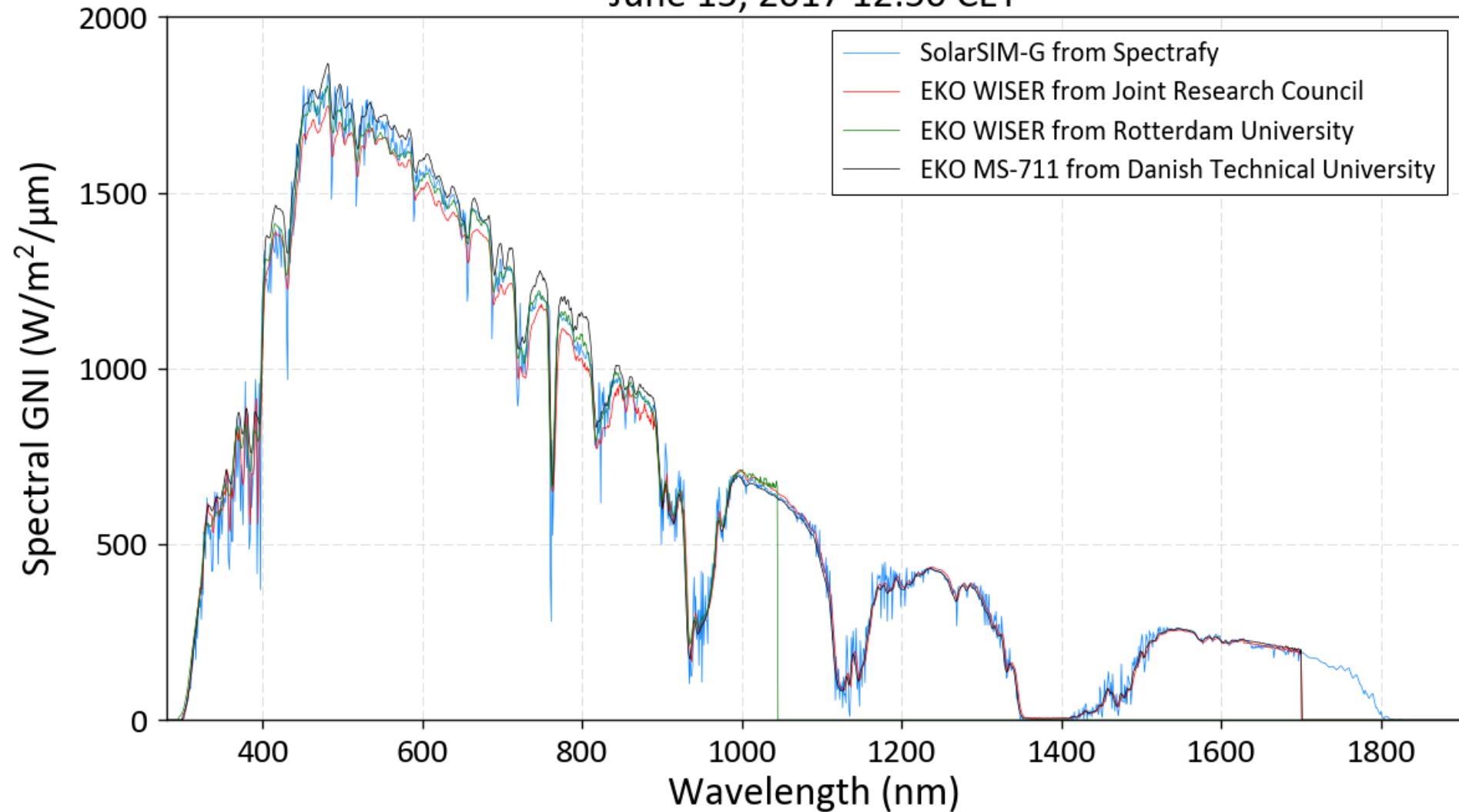
# SolarSIM-G: spectral GNI data

June 15, 2017 12:40 CET



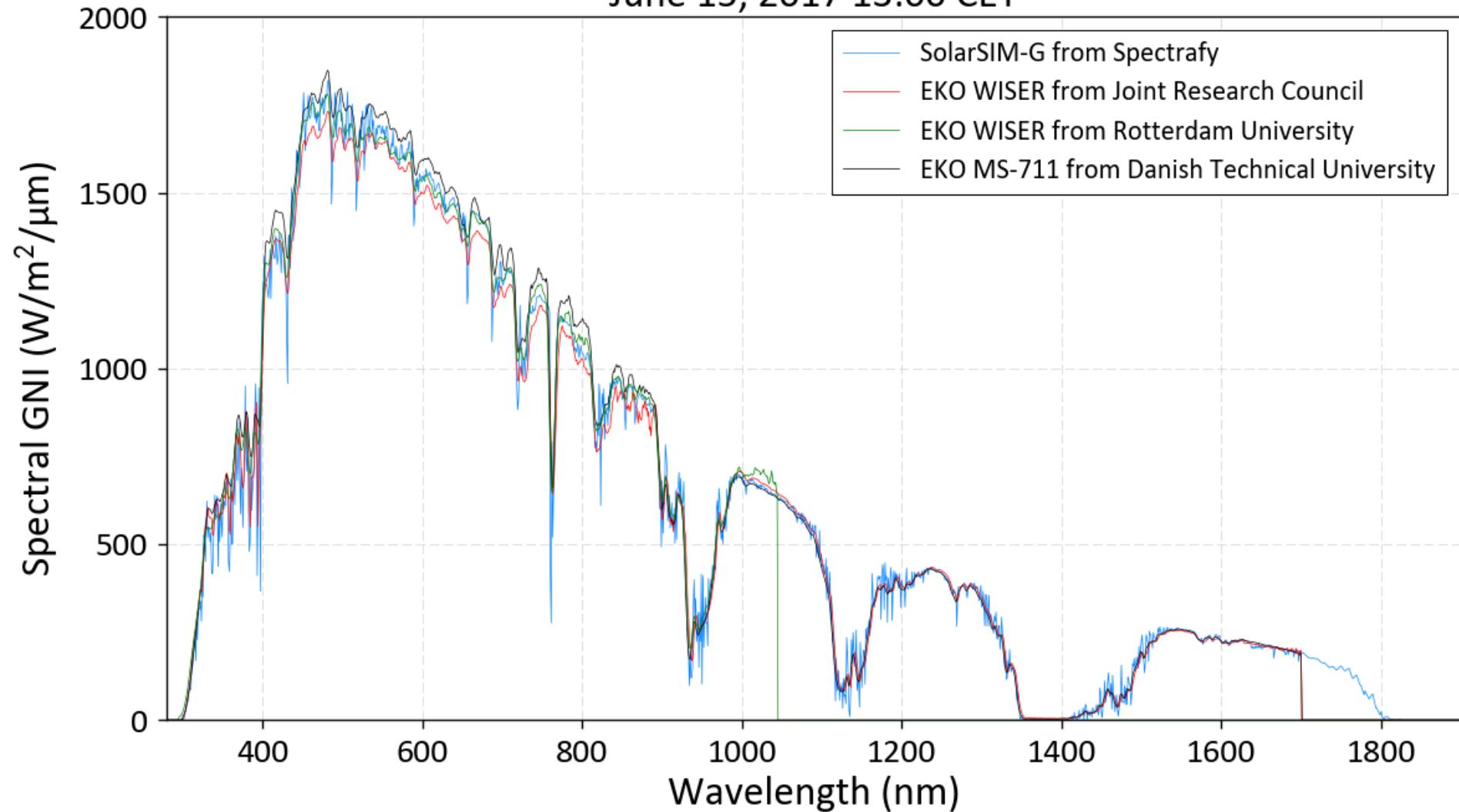
# SolarSIM-G: spectral GNI data

June 15, 2017 12:50 CET



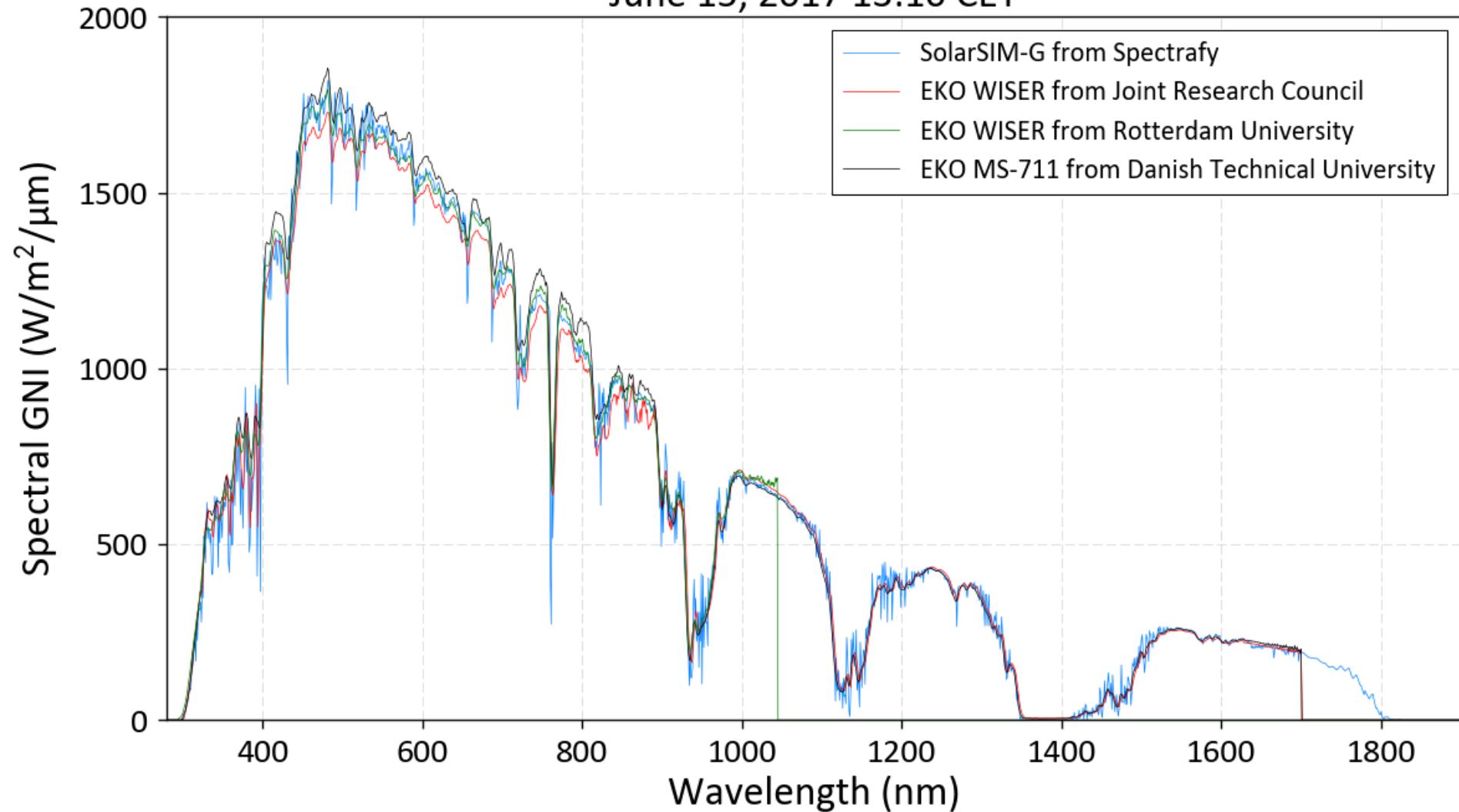
# SolarSIM-G: spectral GNI data

June 15, 2017 13:00 CET



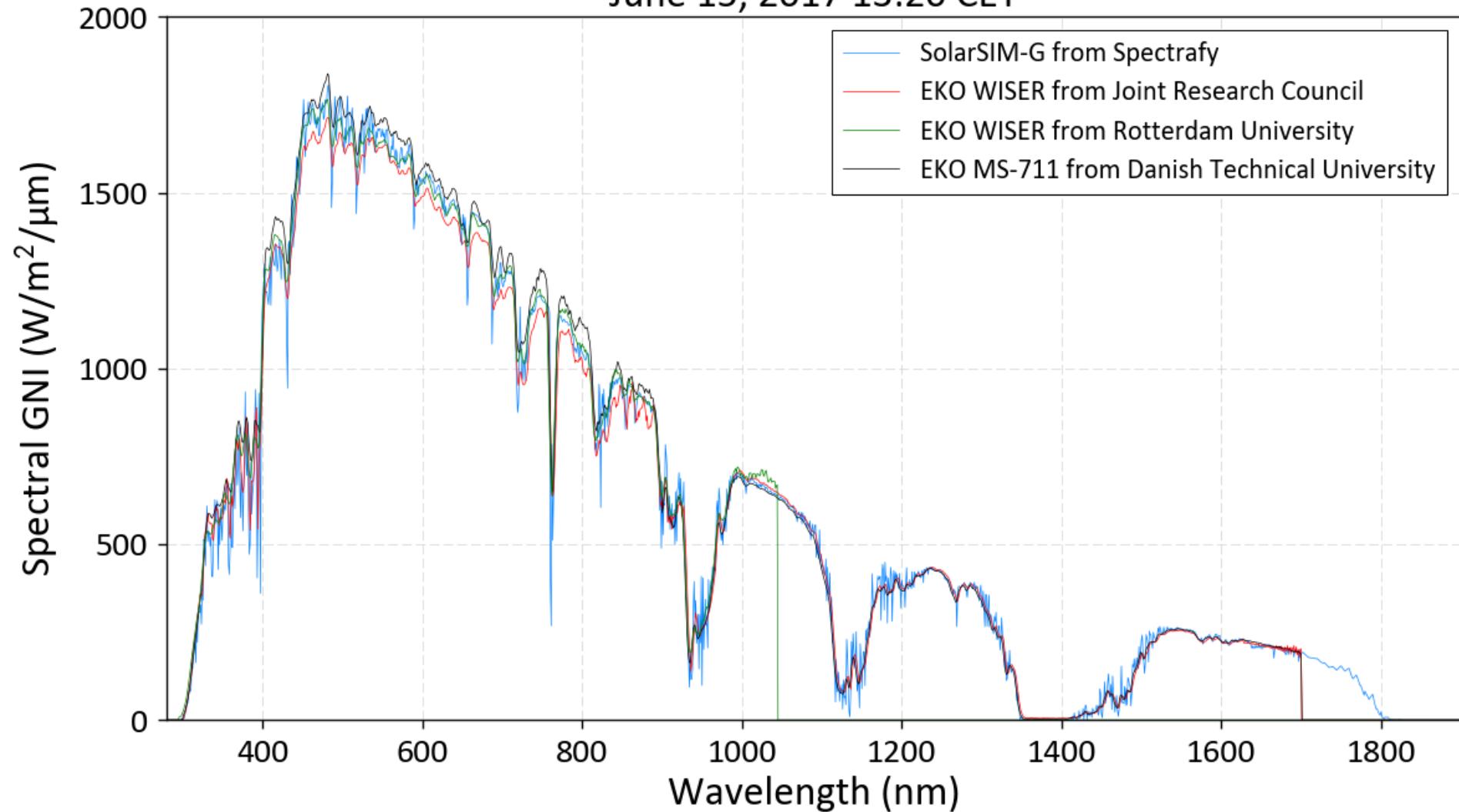
# SolarSIM-G: spectral GNI data

June 15, 2017 13:10 CET



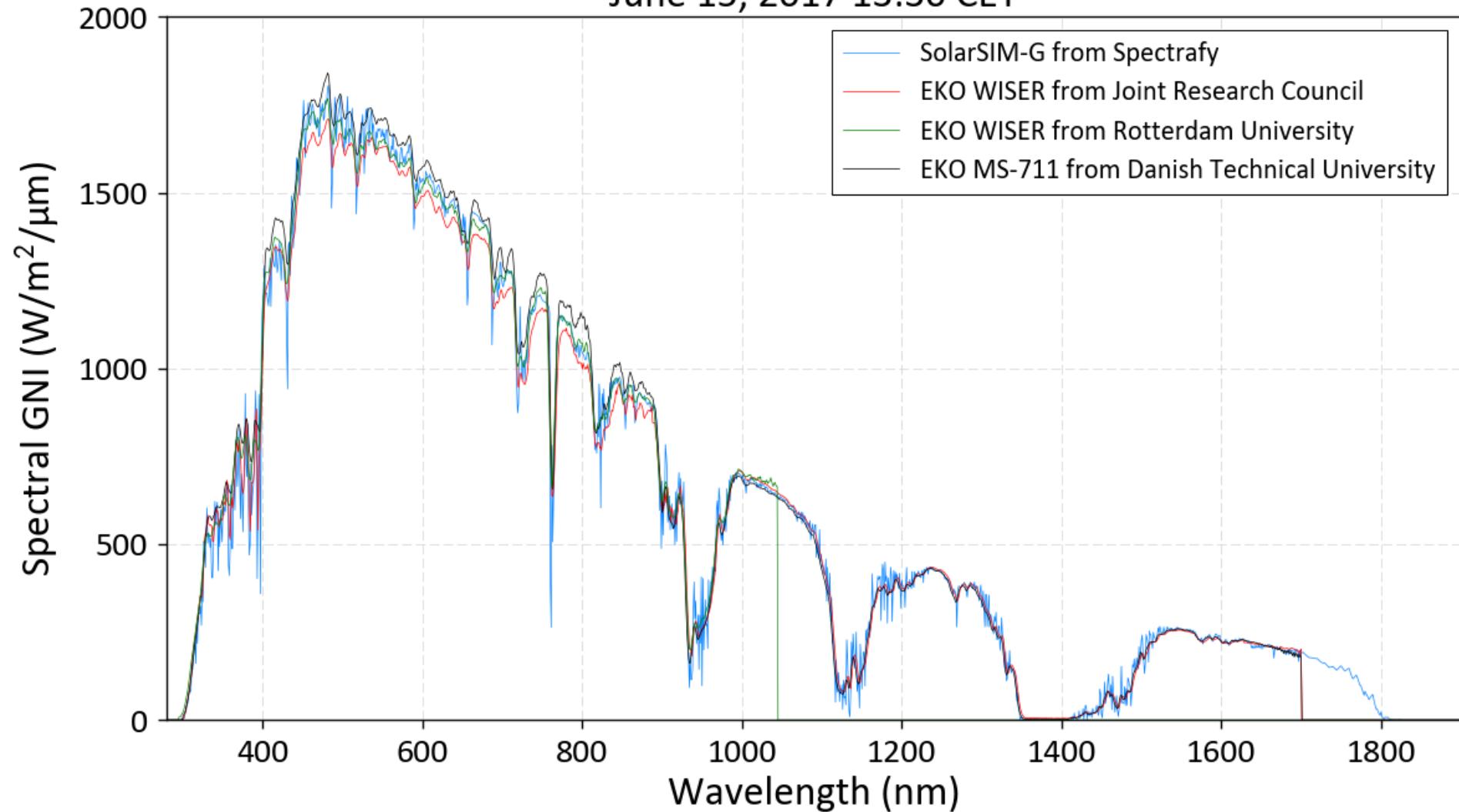
# SolarSIM-G: spectral GNI data

June 15, 2017 13:20 CET



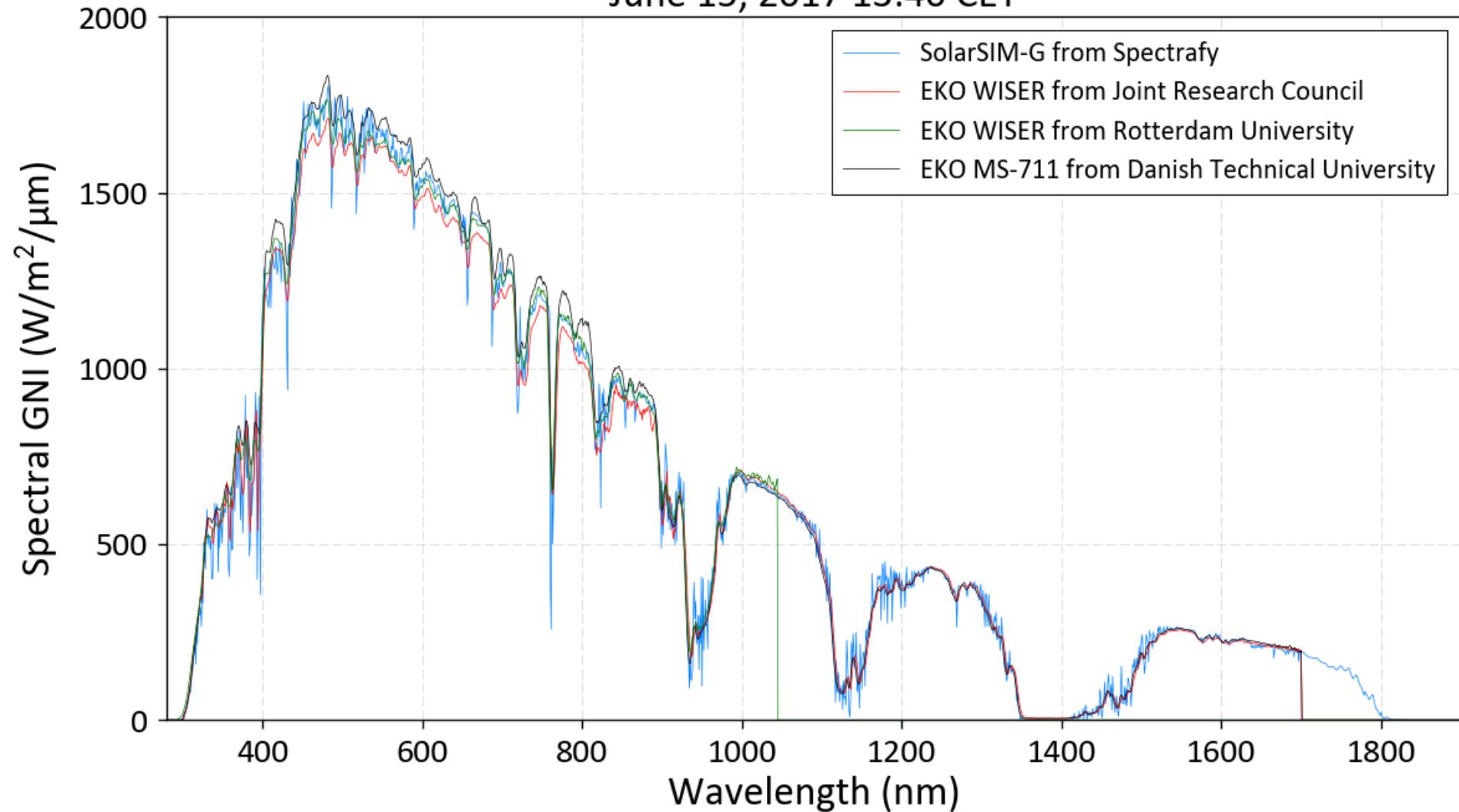
# SolarSIM-G: spectral GNI data

June 15, 2017 13:30 CET



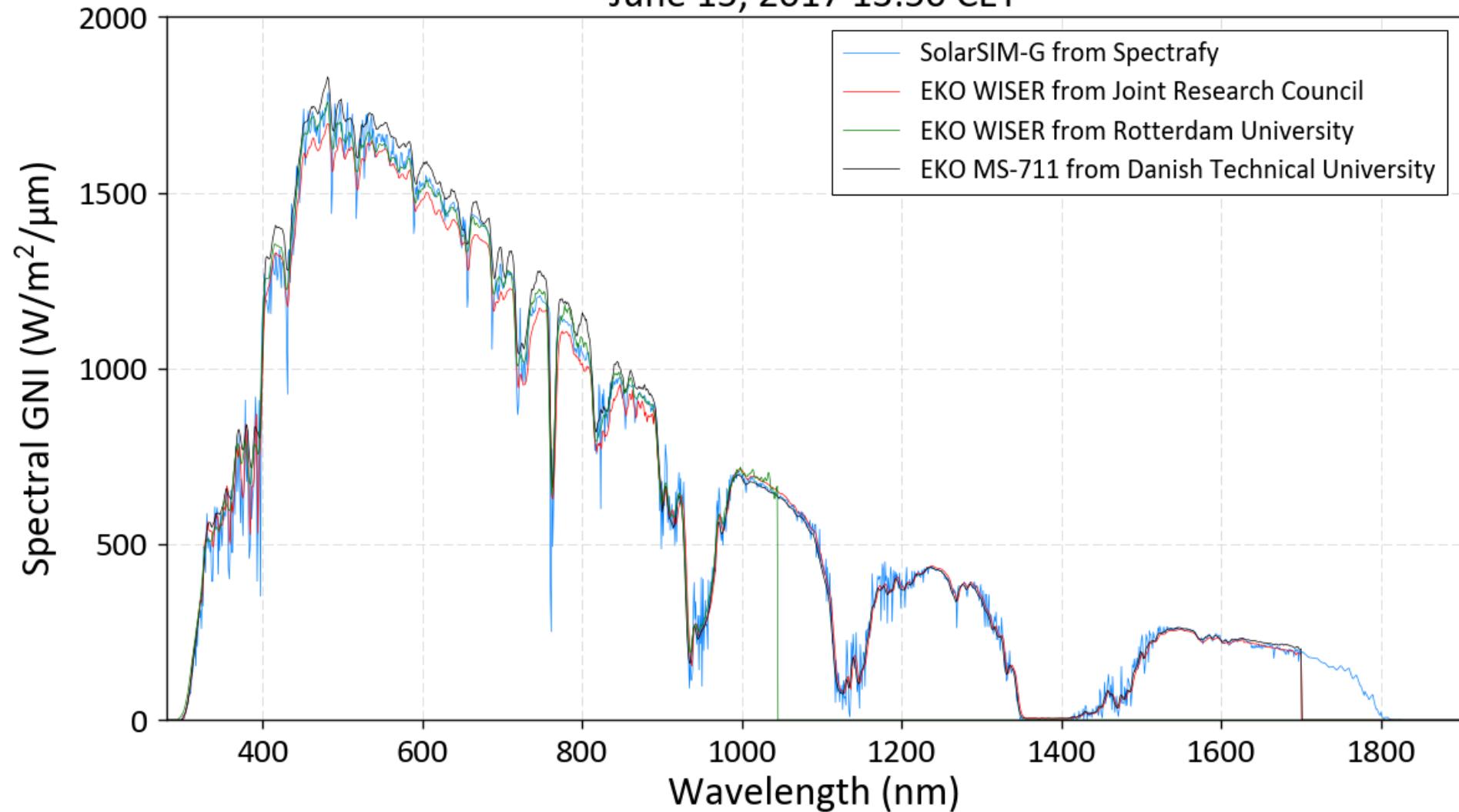
# SolarSIM-G: spectral GNI data

June 15, 2017 13:40 CET



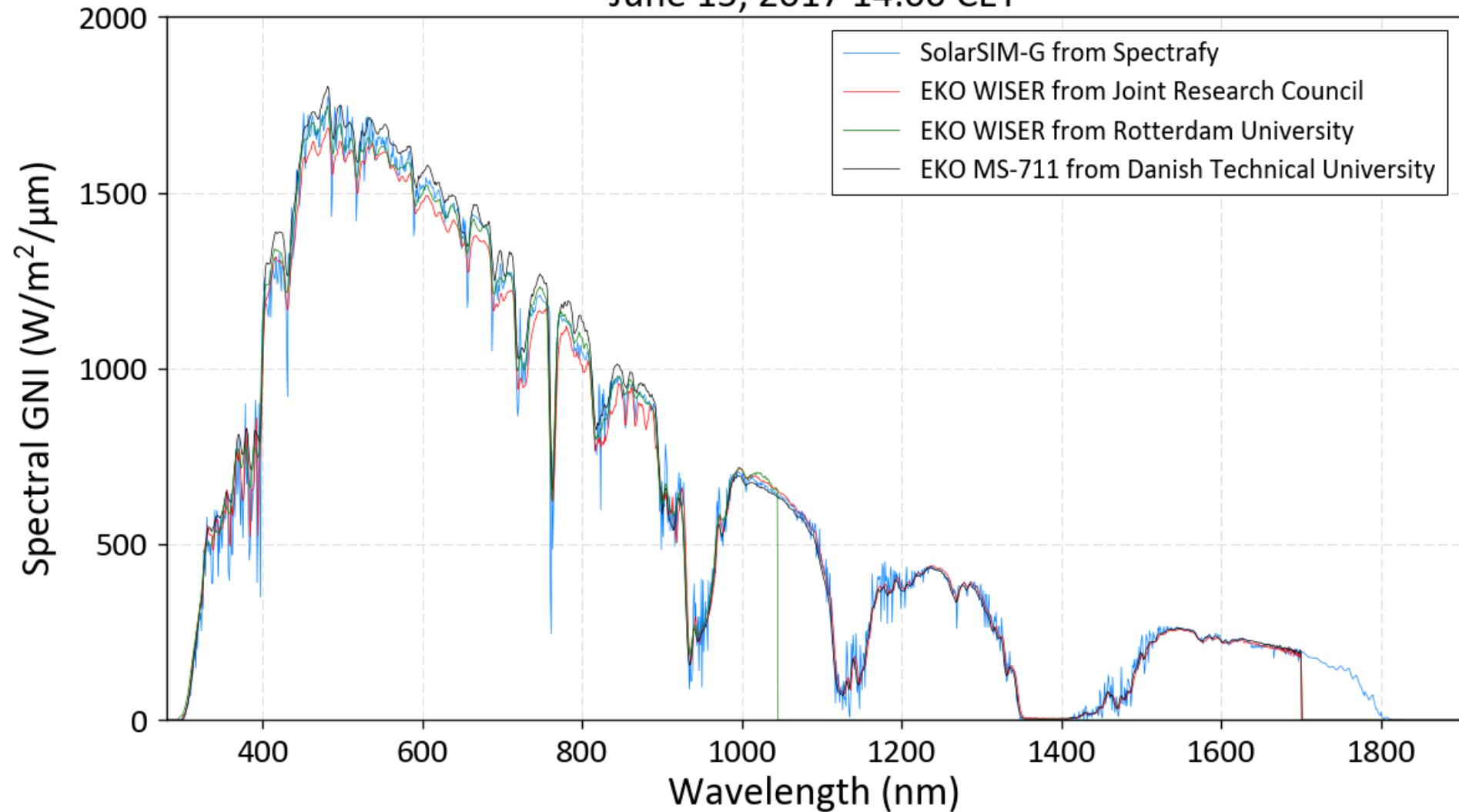
# SolarSIM-G: spectral GNI data

June 15, 2017 13:50 CET



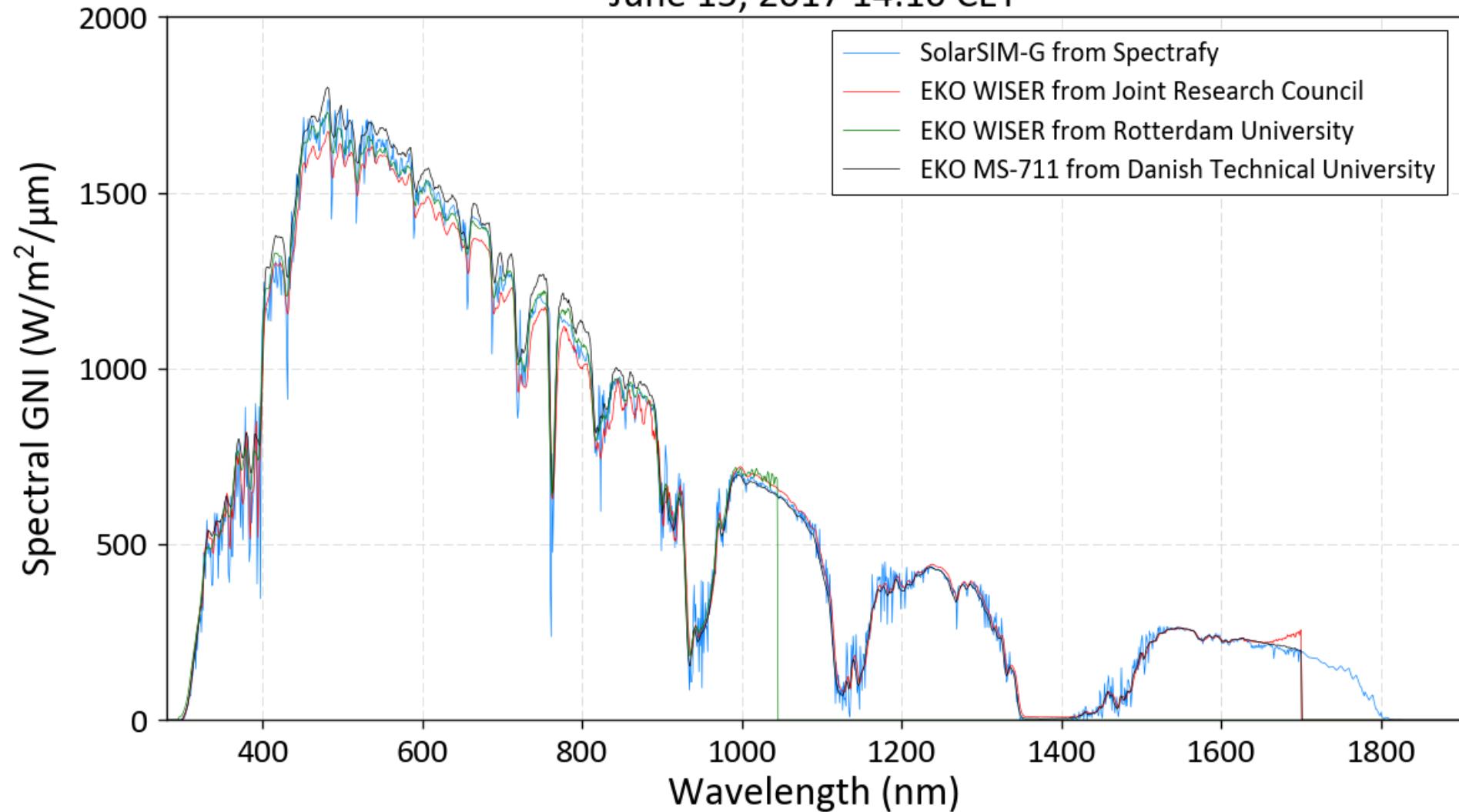
# SolarSIM-G: spectral GNI data

June 15, 2017 14:00 CET



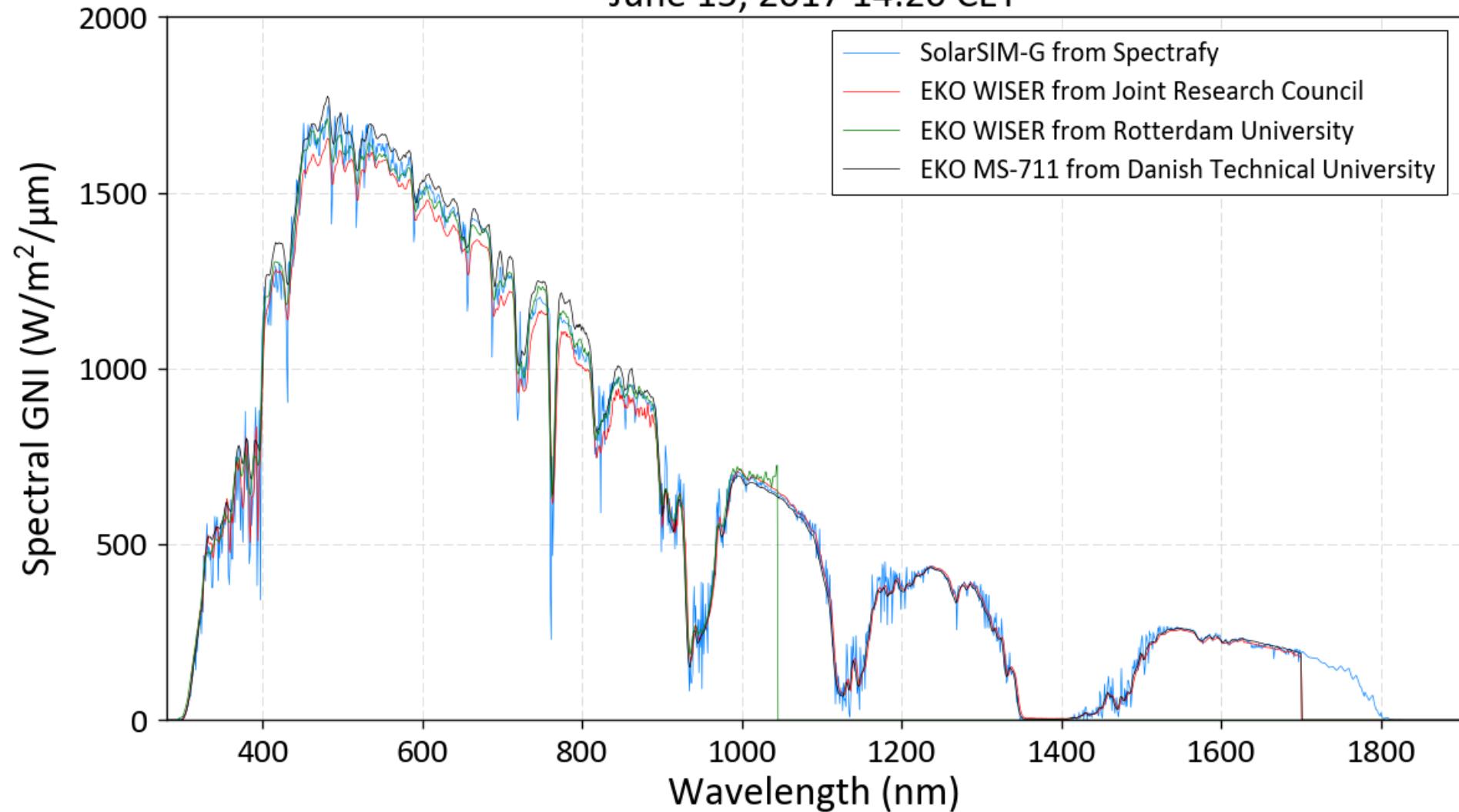
# SolarSIM-G: spectral GNI data

June 15, 2017 14:10 CET



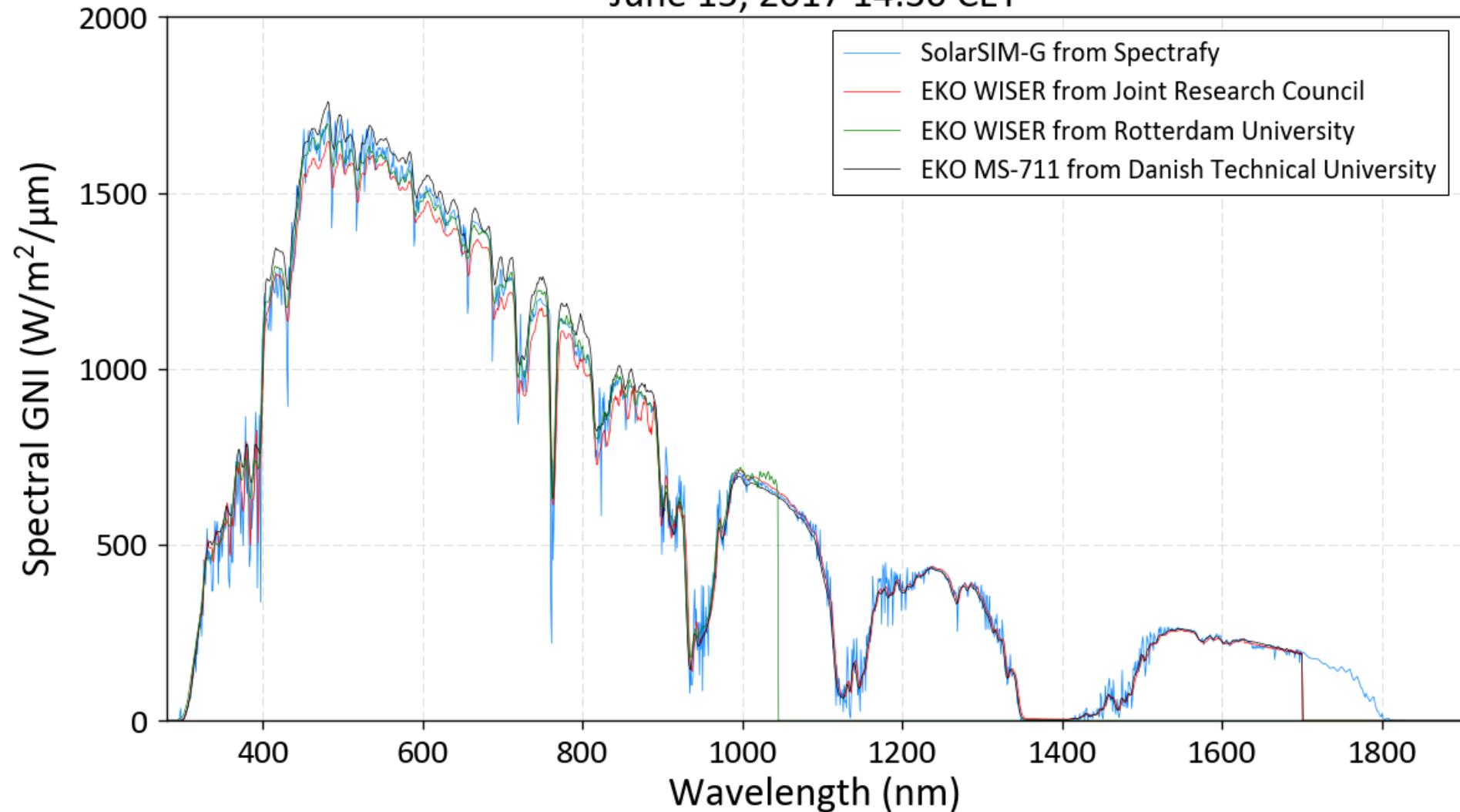
# SolarSIM-G: spectral GNI data

June 15, 2017 14:20 CET



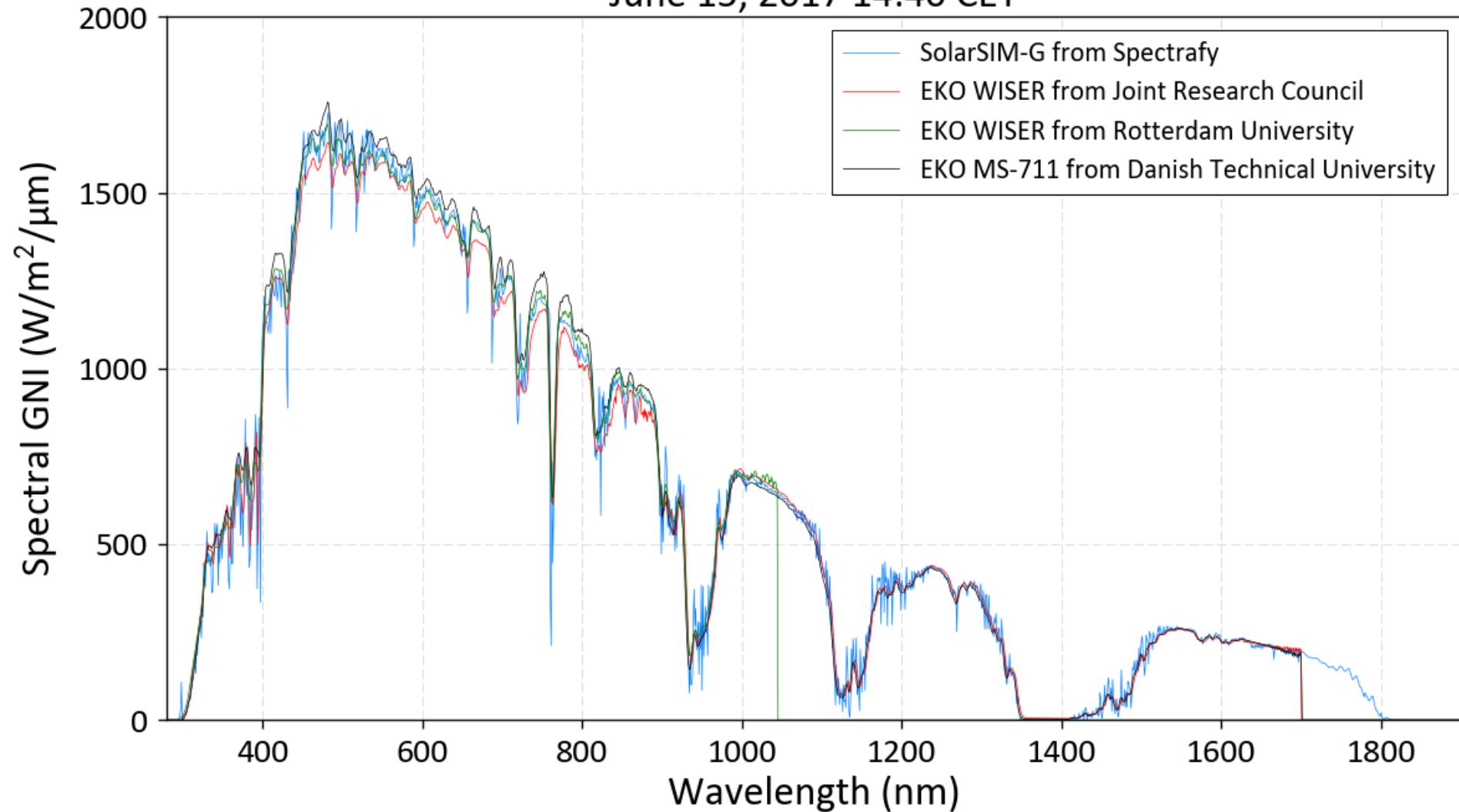
# SolarSIM-G: spectral GNI data

June 15, 2017 14:30 CET



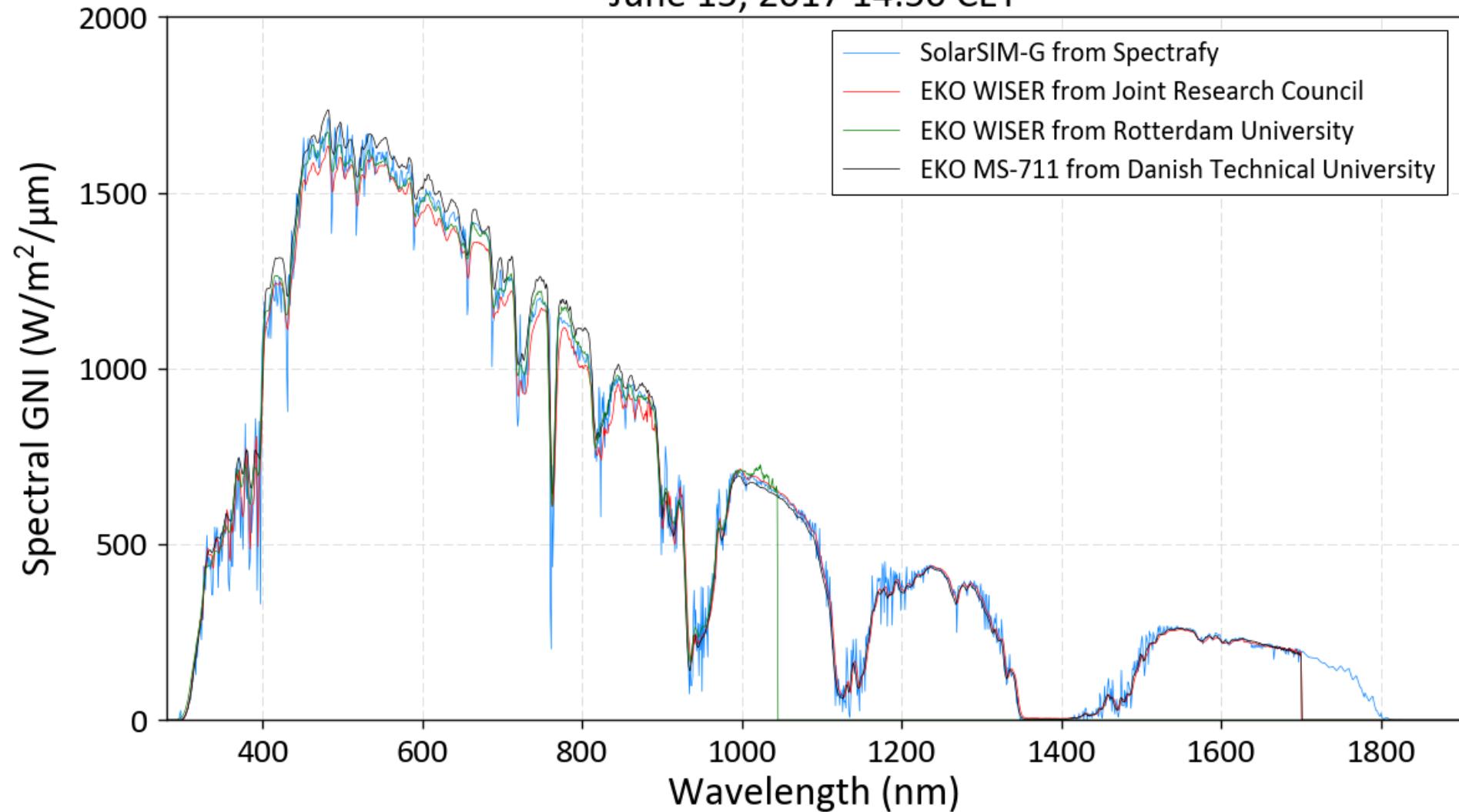
# SolarSIM-G: spectral GNI data

June 15, 2017 14:40 CET



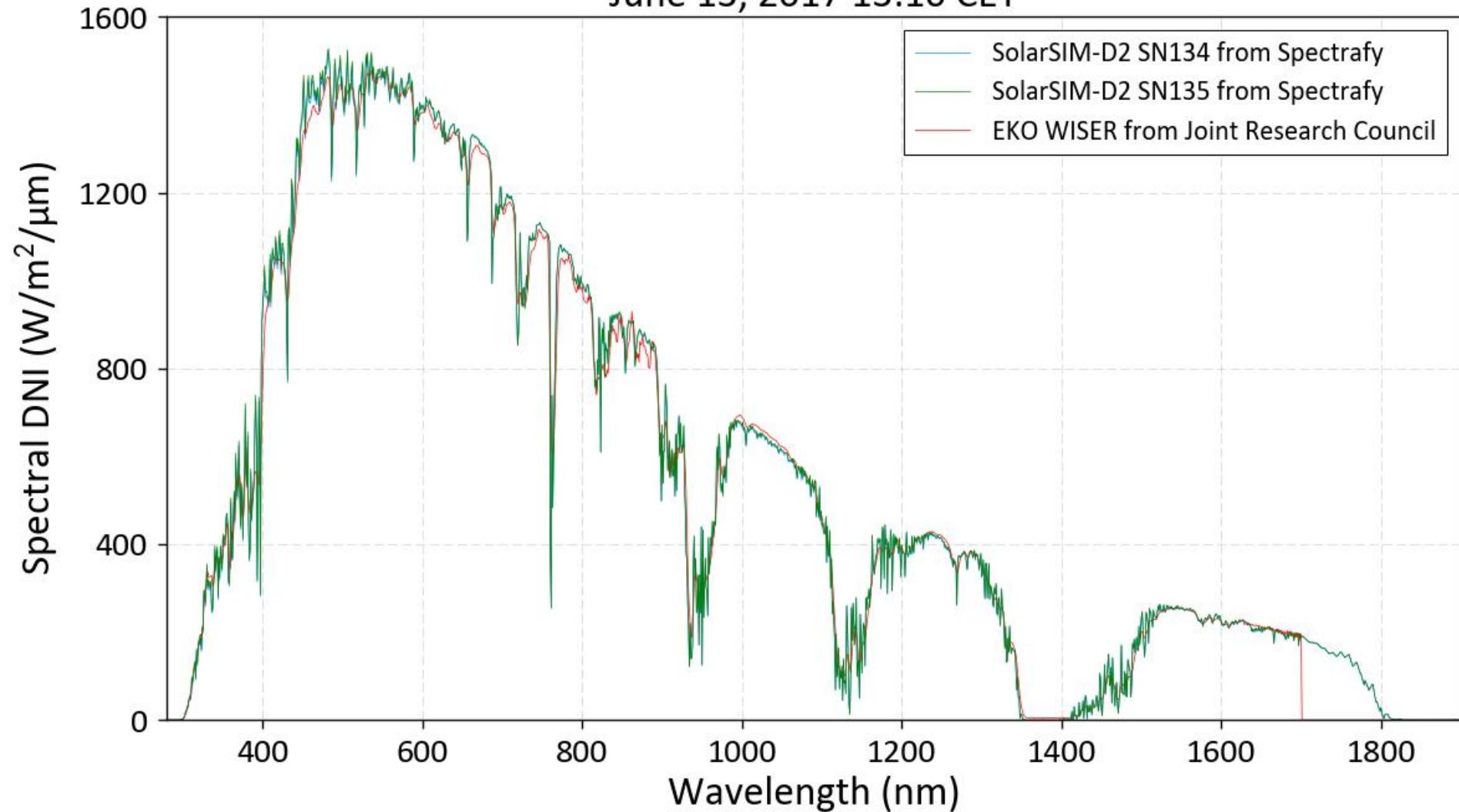
# SolarSIM-G: spectral GNI data

June 15, 2017 14:50 CET



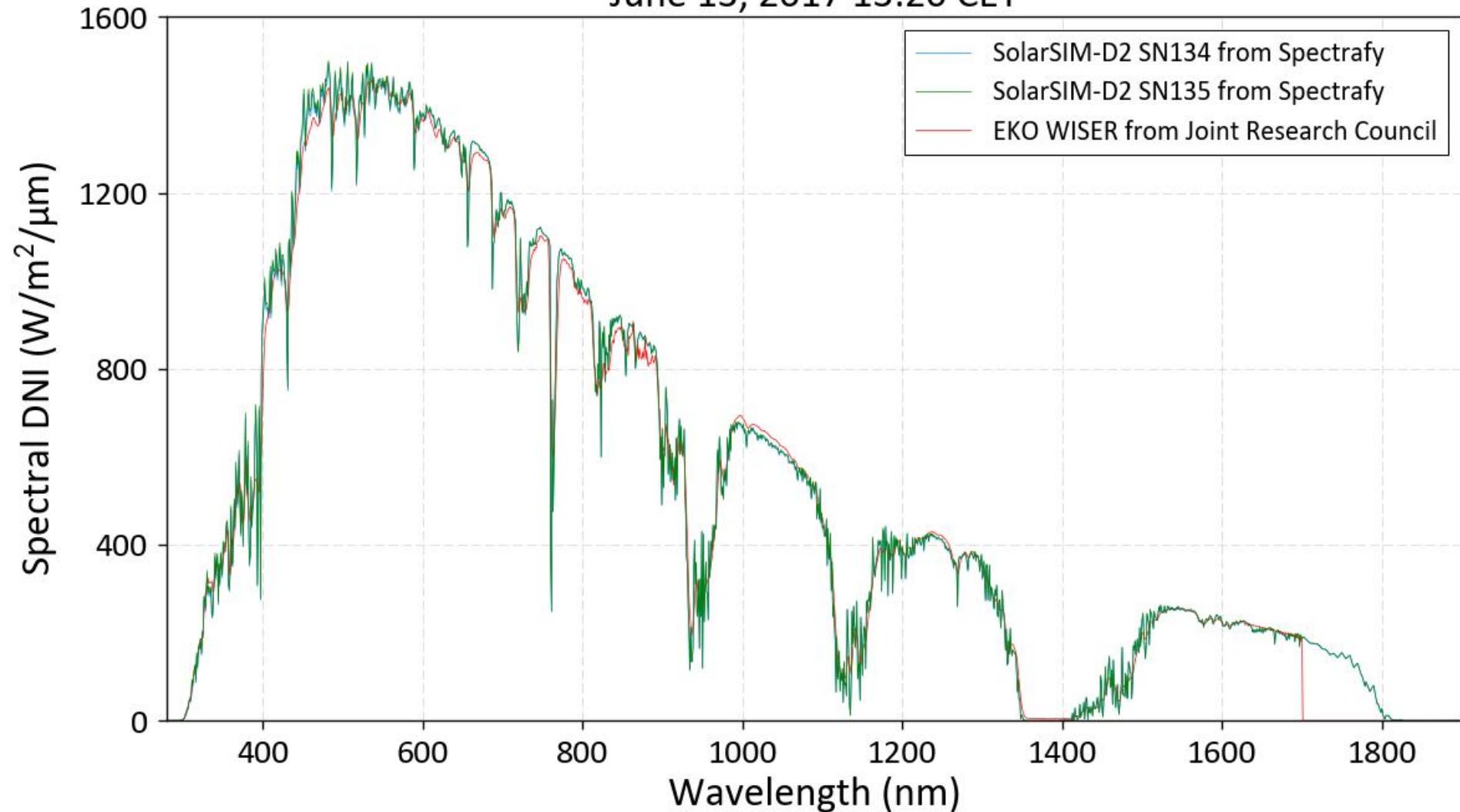
# SolarSIM-D2: spectral DNI data

June 13, 2017 13:10 CET



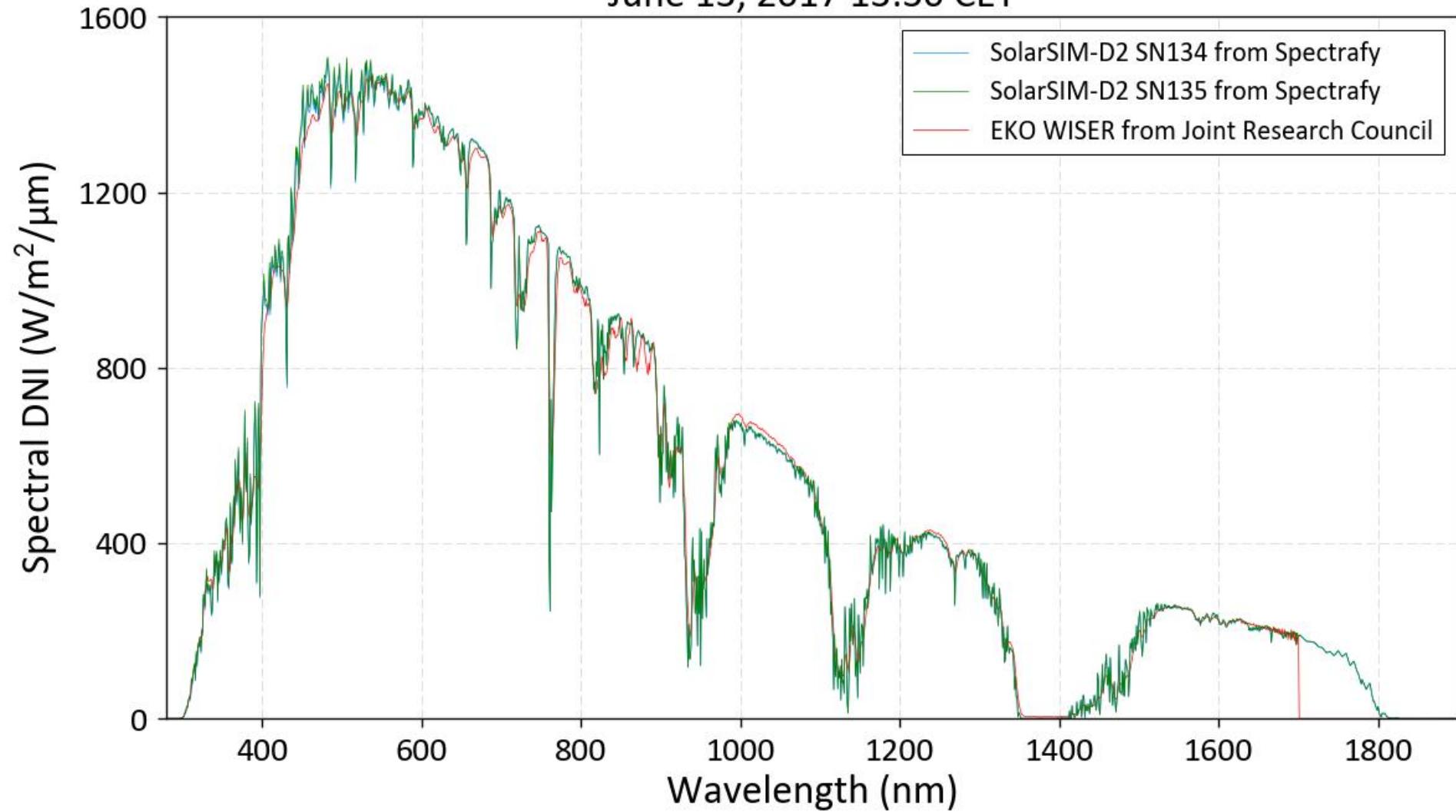
# SolarSIM-D2: spectral DNI data

June 13, 2017 13:20 CET



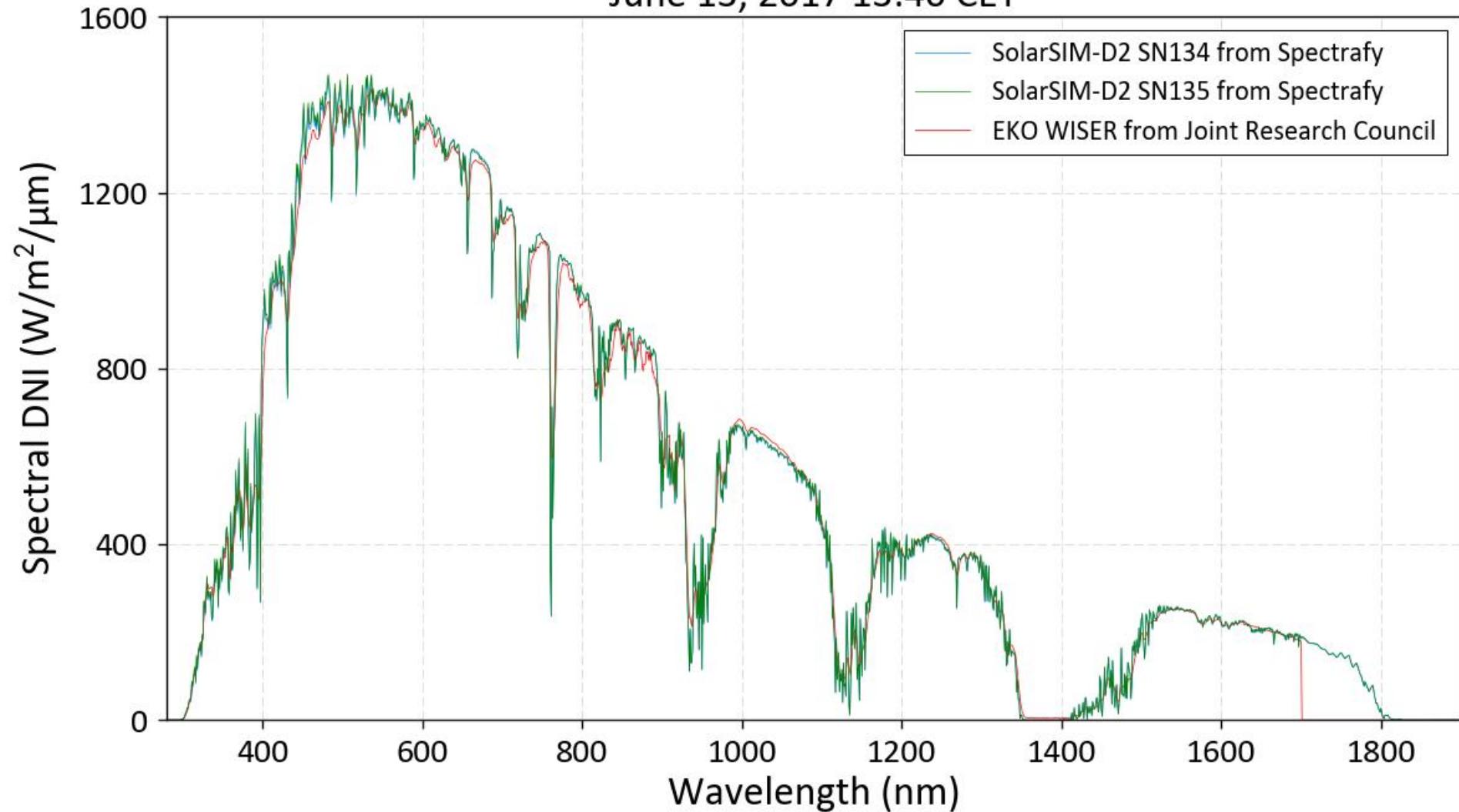
# SolarSIM-D2: spectral DNI data

June 13, 2017 13:30 CET



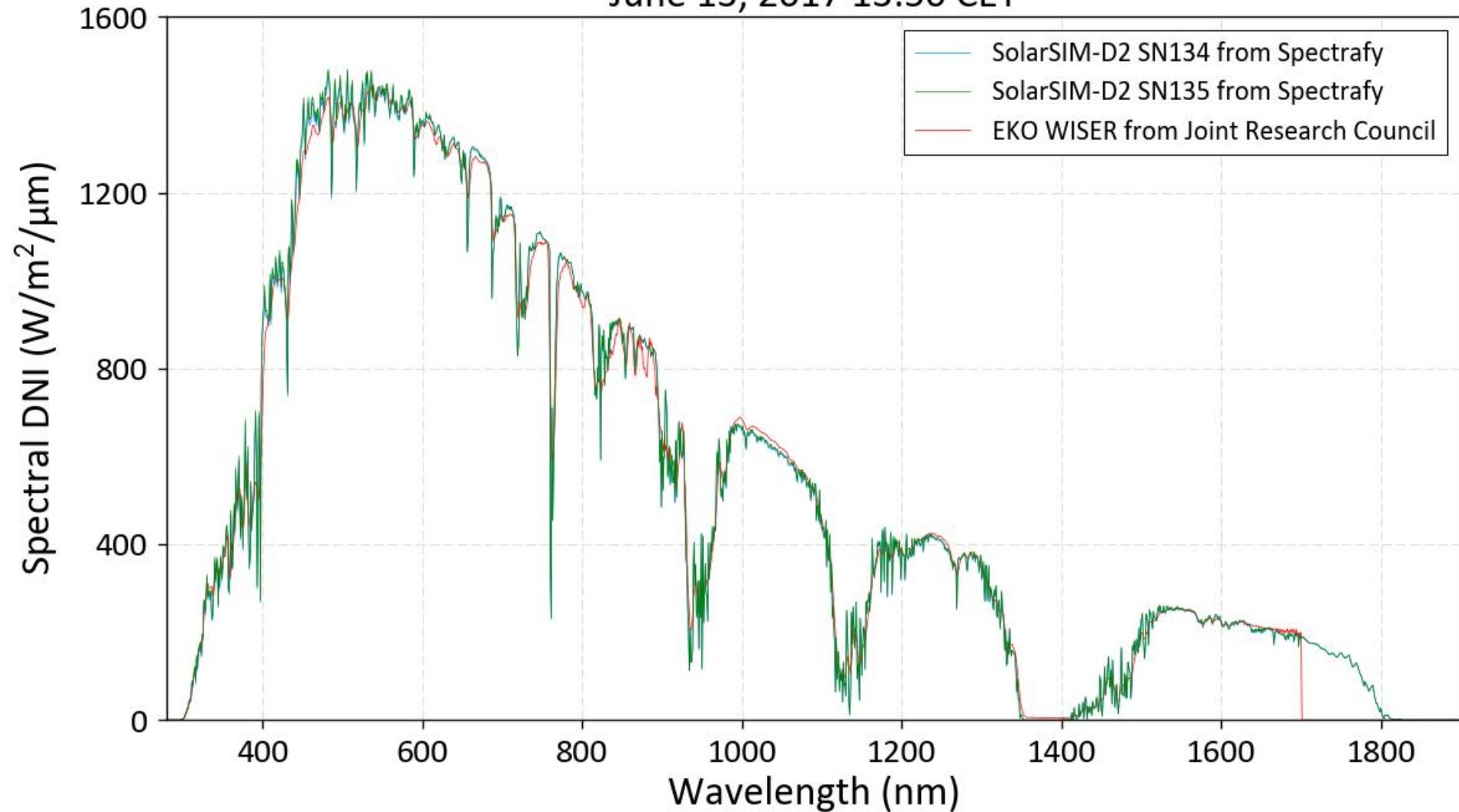
# SolarSIM-D2: spectral DNI data

June 13, 2017 13:40 CET



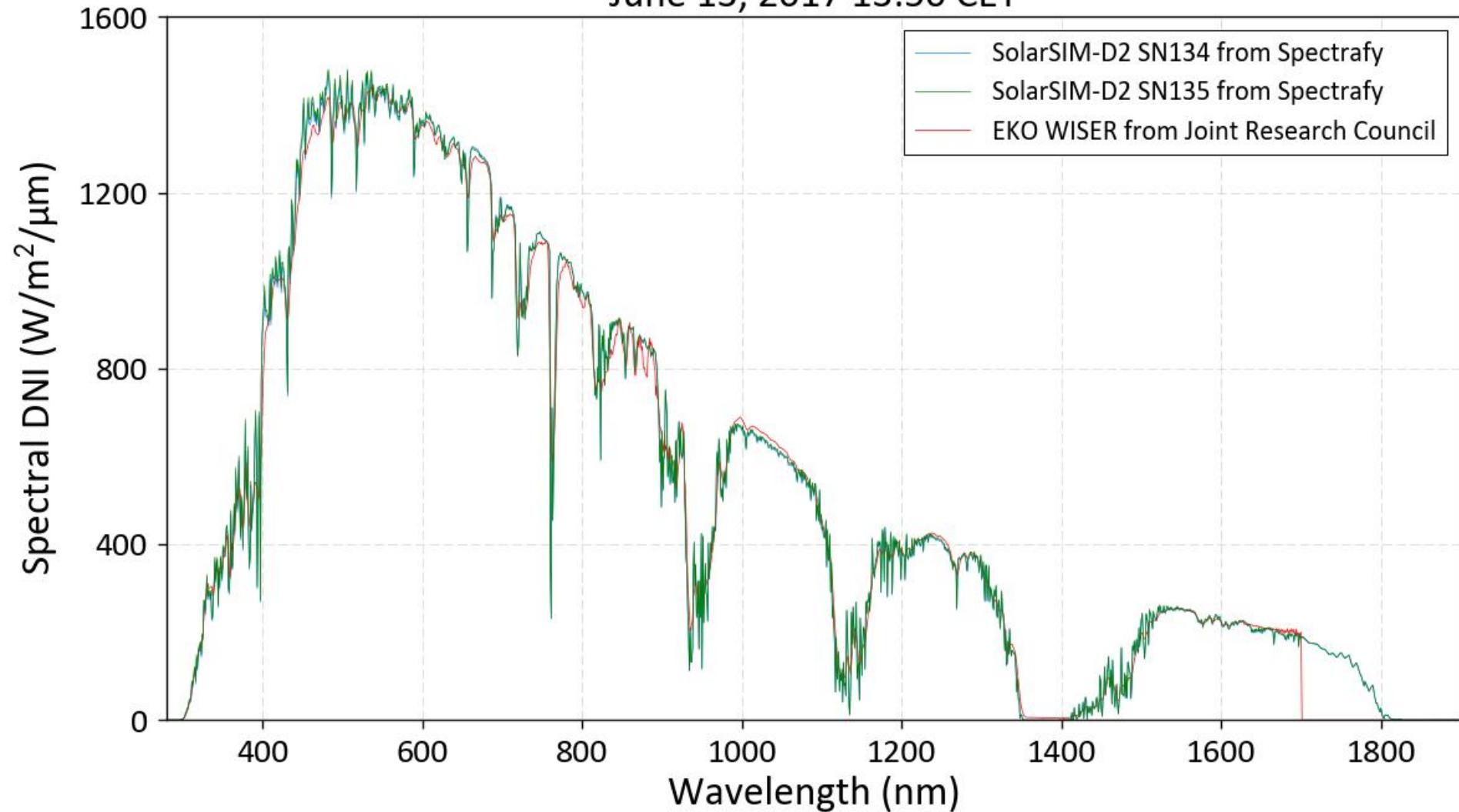
# SolarSIM-D2: spectral DNI data

June 13, 2017 13:50 CET



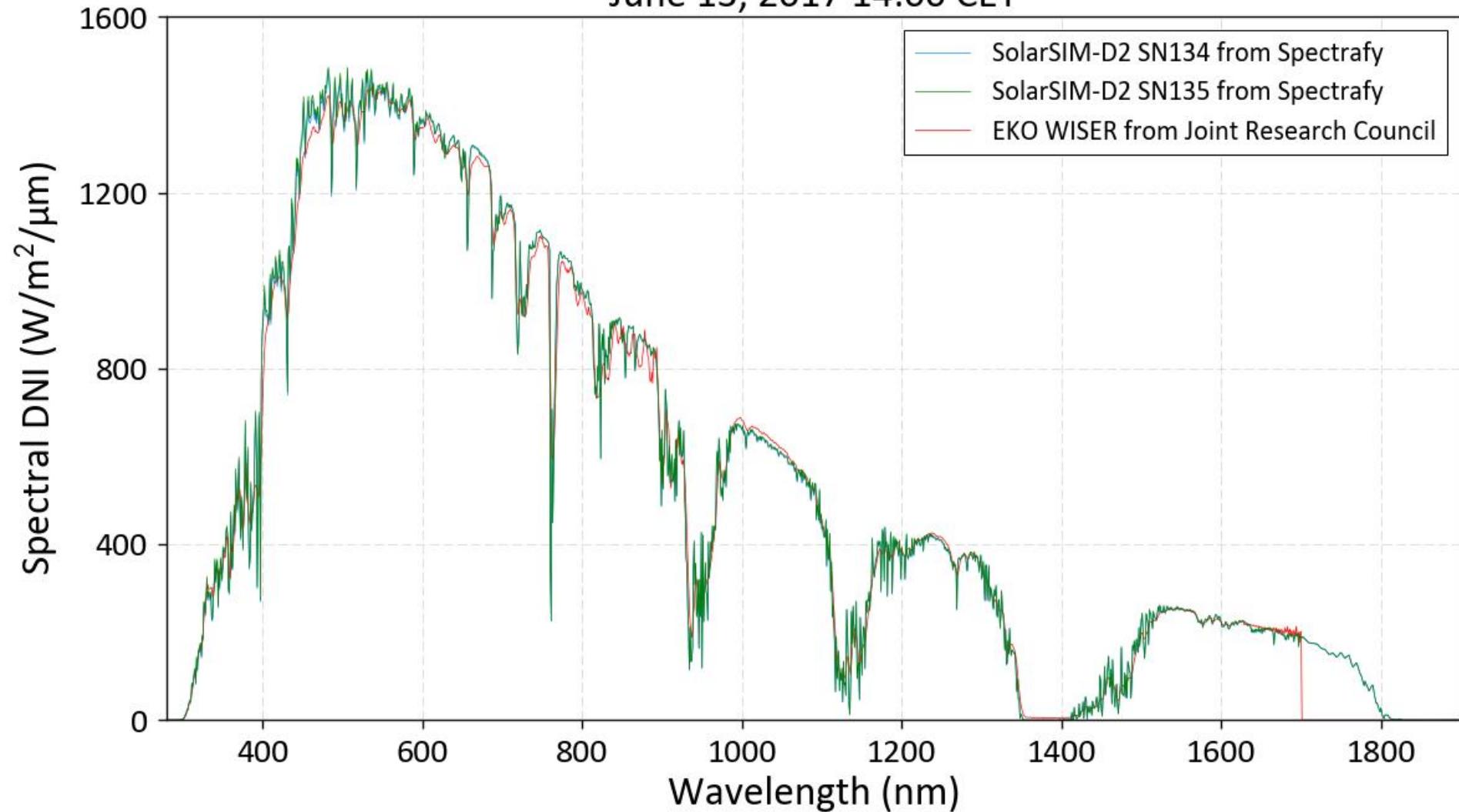
# SolarSIM-D2: spectral DNI data

June 13, 2017 13:50 CET



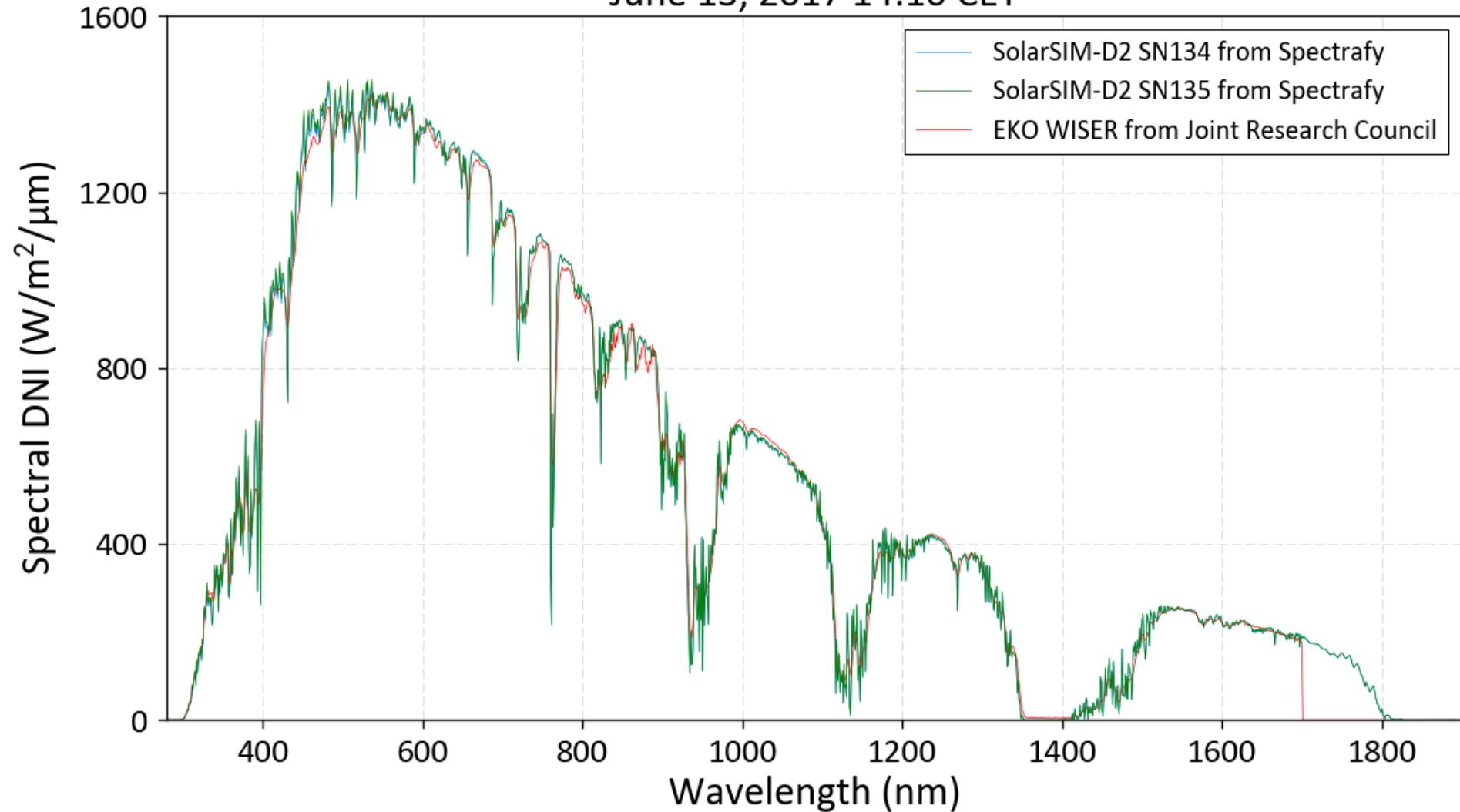
# SolarSIM-D2: spectral DNI data

June 13, 2017 14:00 CET



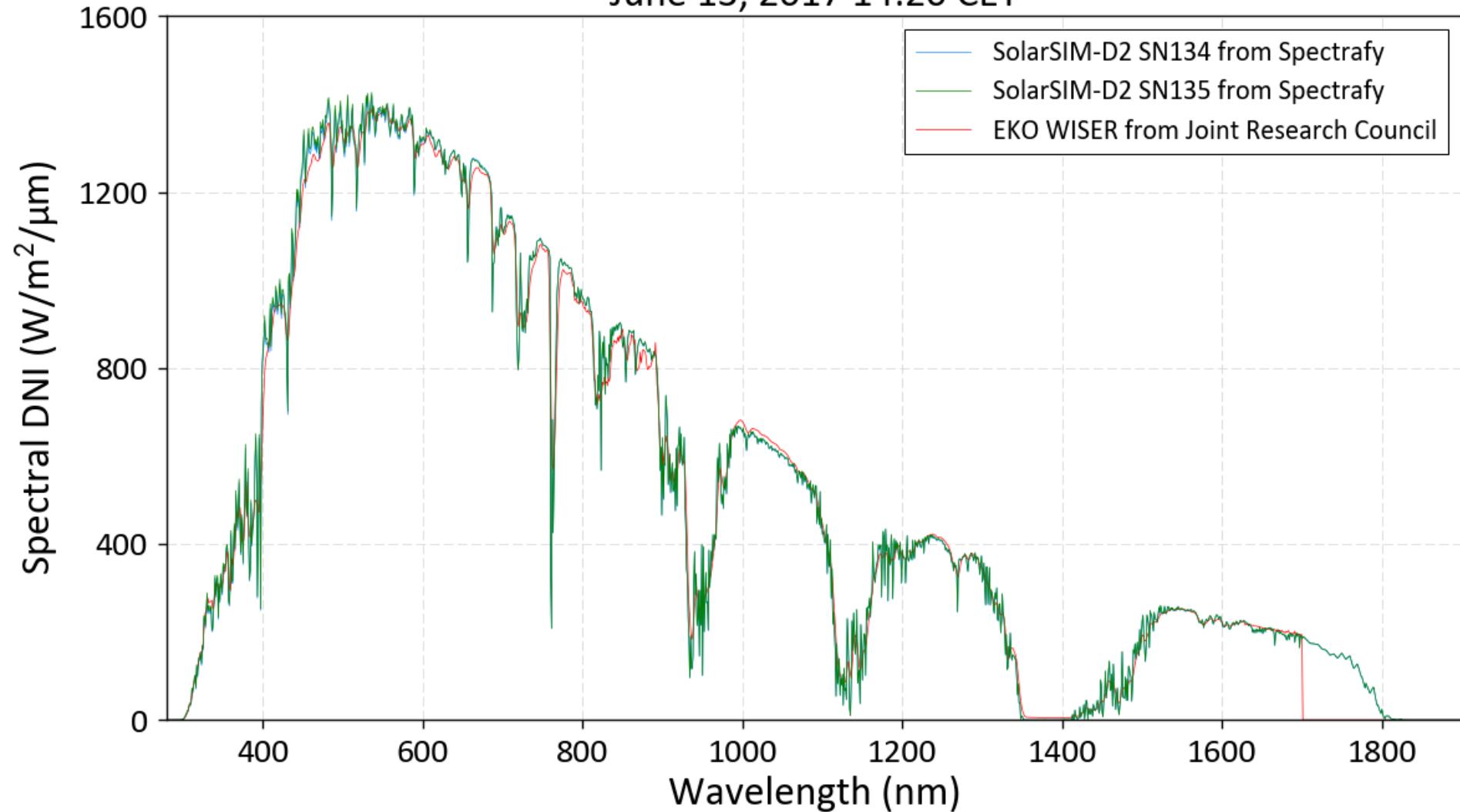
# SolarSIM-D2: spectral DNI data

June 13, 2017 14:10 CET



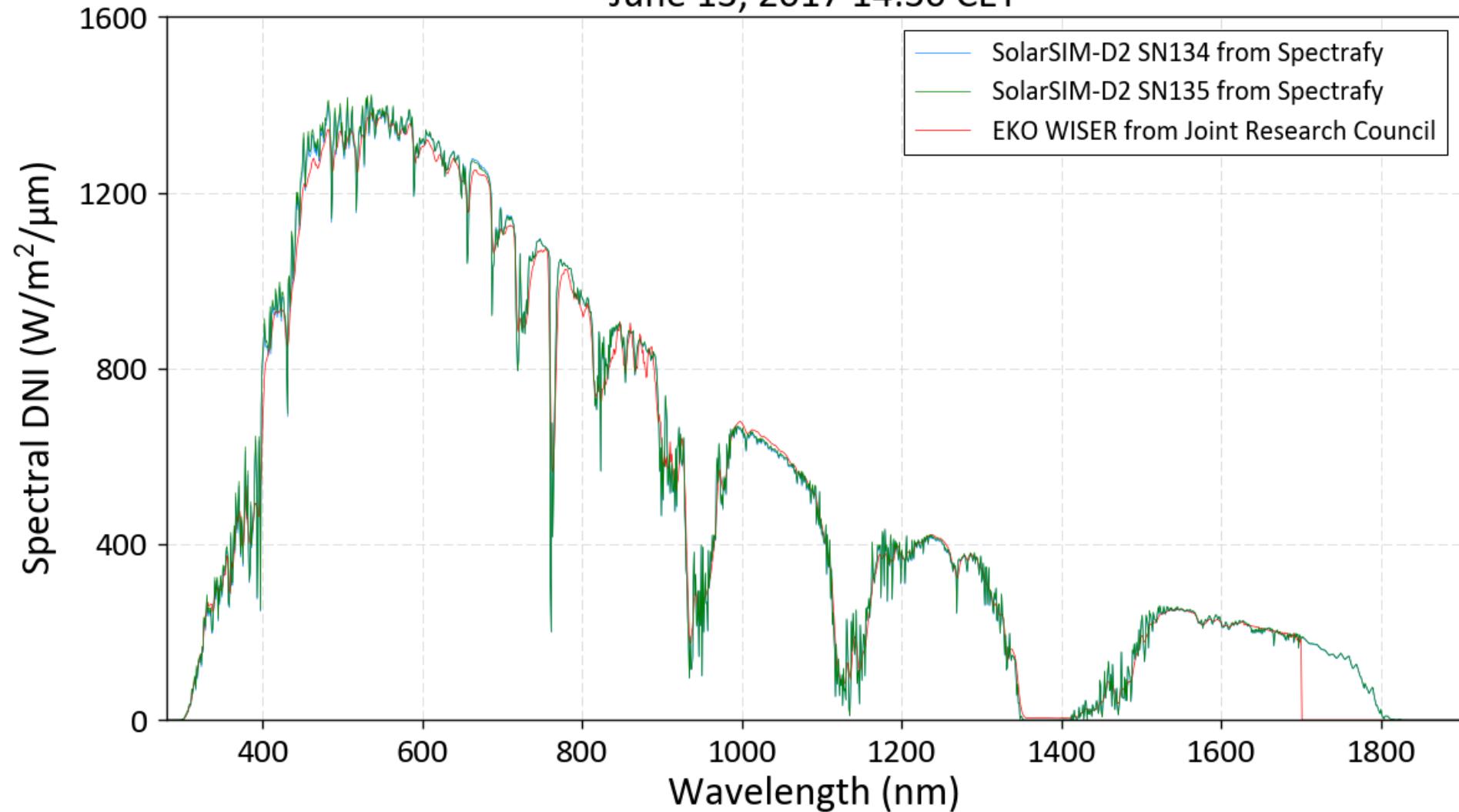
# SolarSIM-D2: spectral DNI data

June 13, 2017 14:20 CET



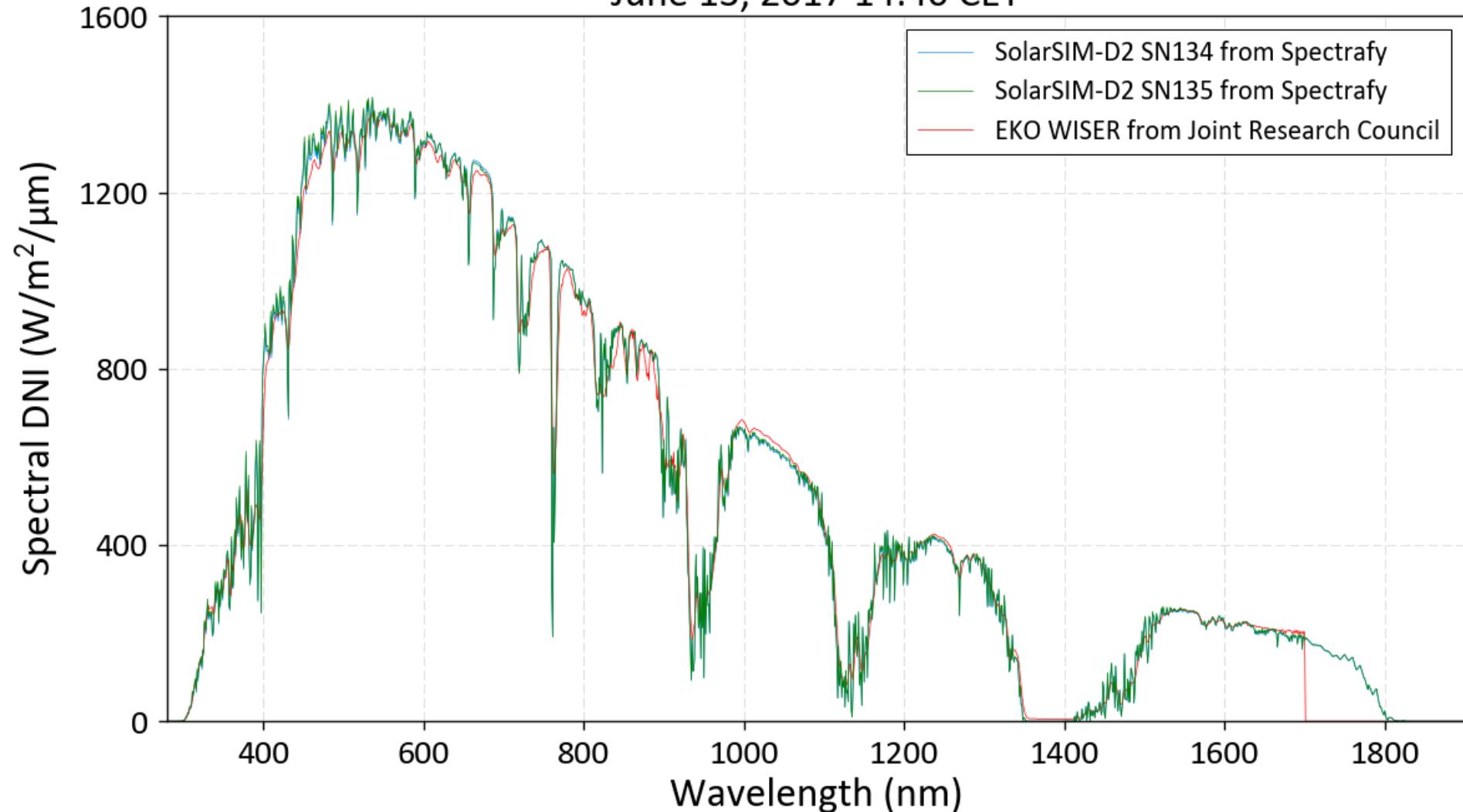
# SolarSIM-D2: spectral DNI data

June 13, 2017 14:30 CET



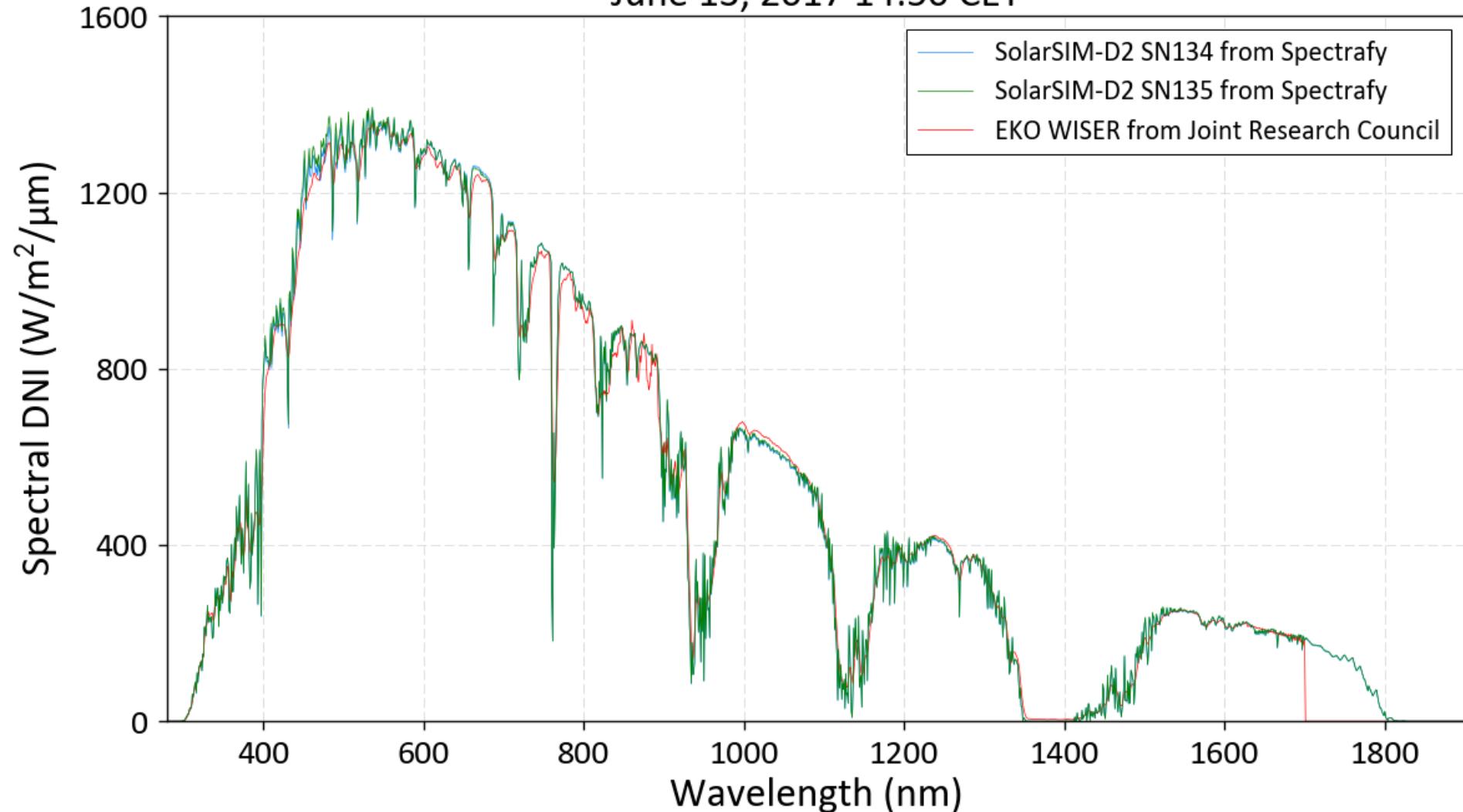
# SolarSIM-D2: spectral DNI data

June 13, 2017 14:40 CET



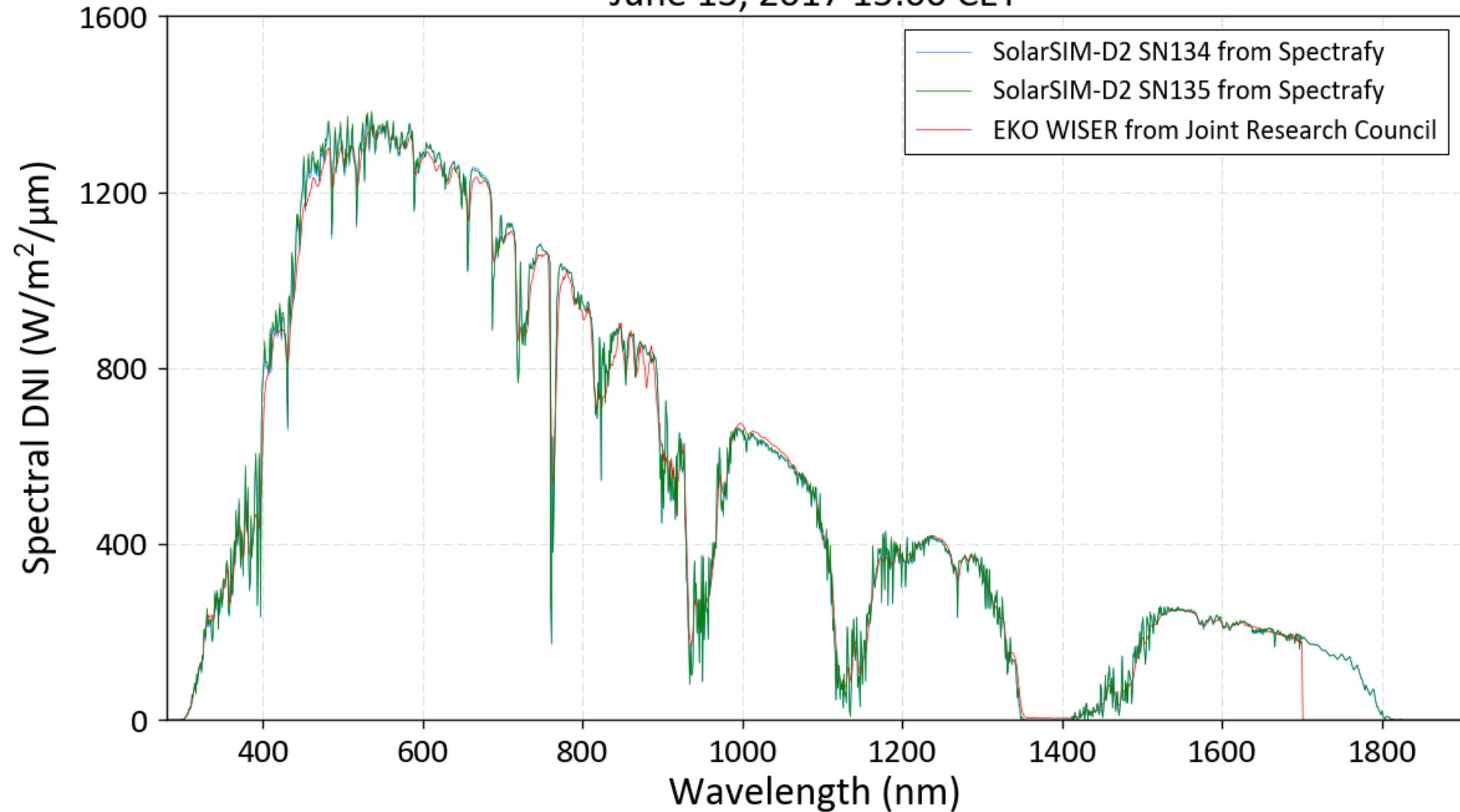
# SolarSIM-D2: spectral DNI data

June 13, 2017 14:50 CET



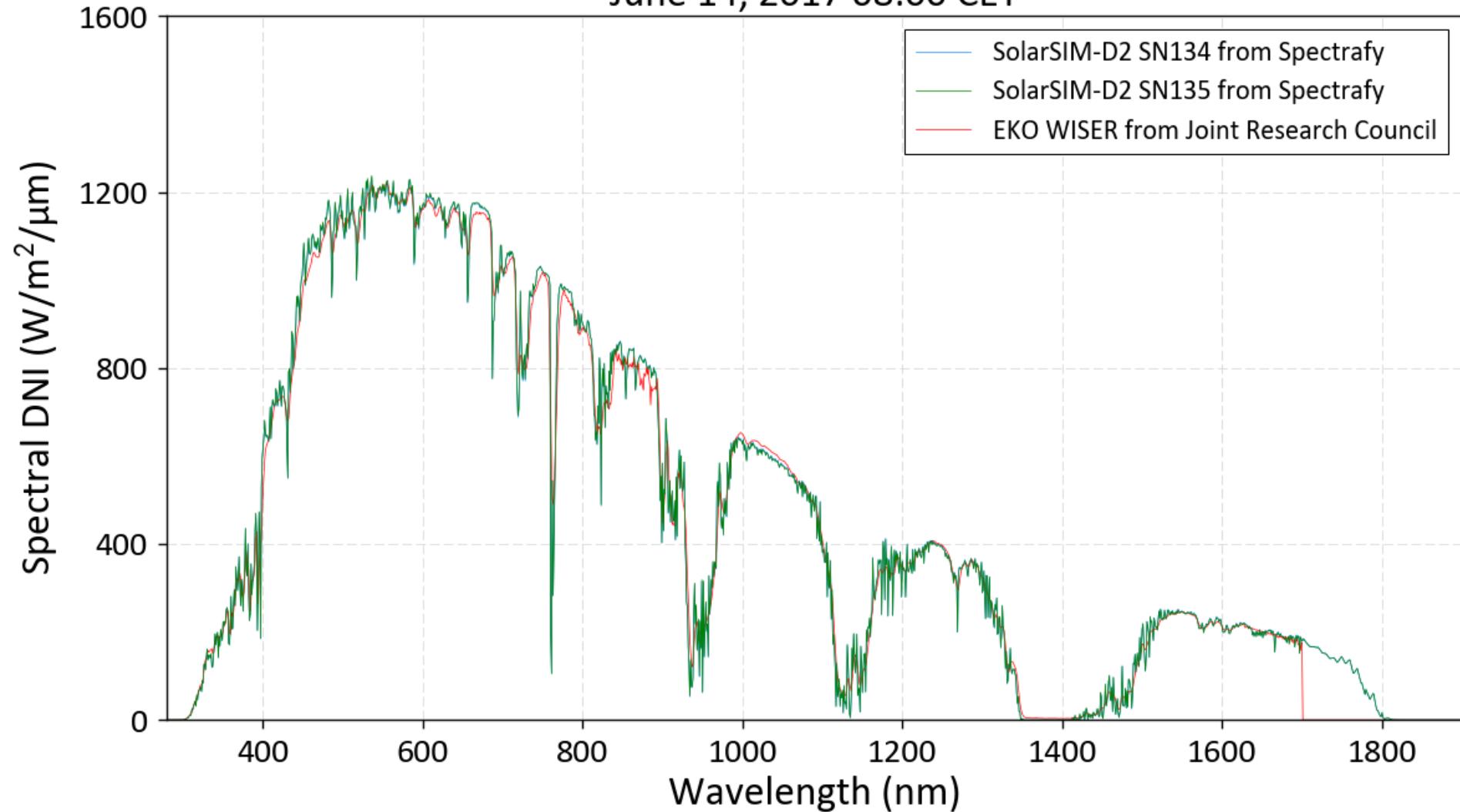
# SolarSIM-D2: spectral DNI data

June 13, 2017 15:00 CET



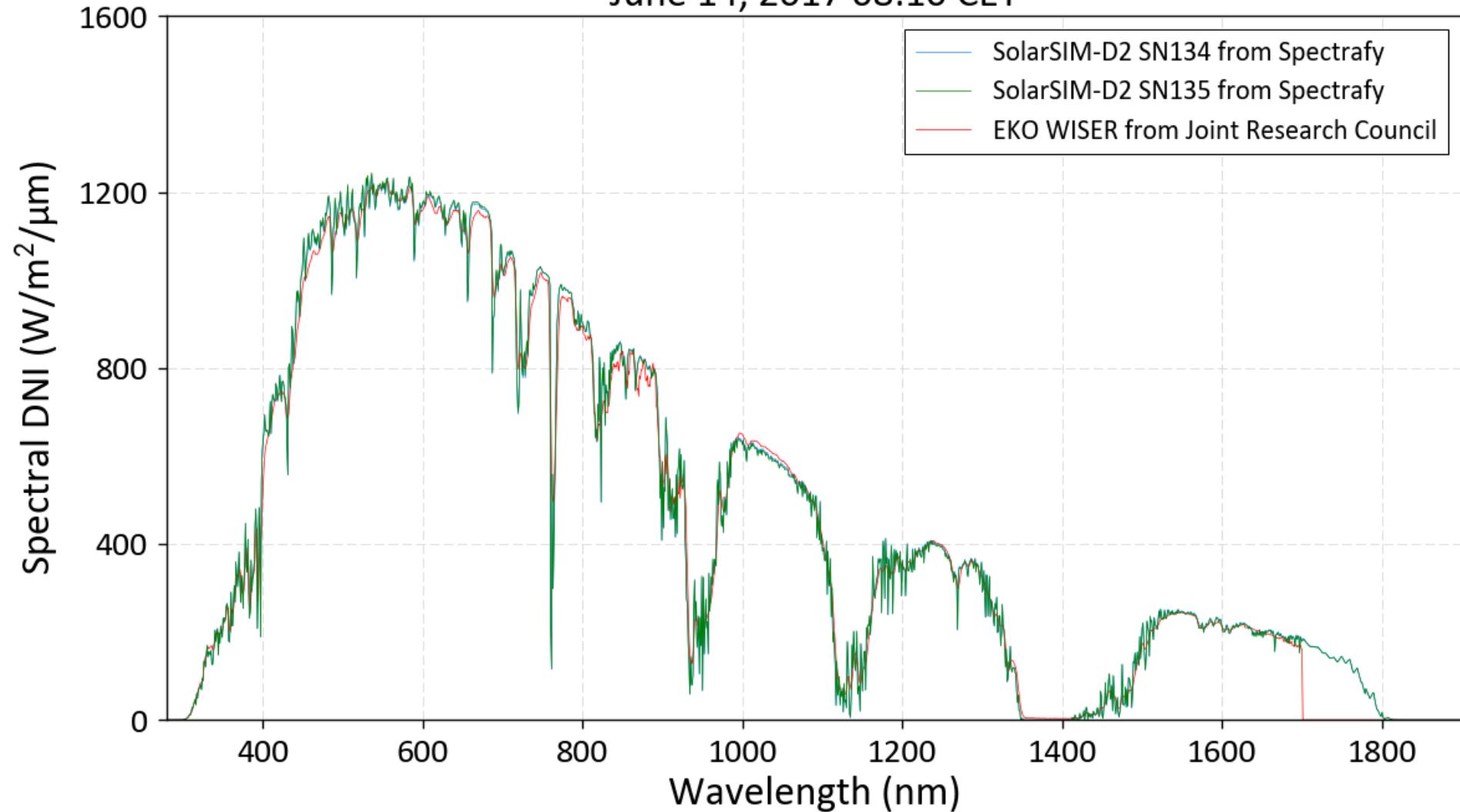
# SolarSIM-D2: spectral DNI data

June 14, 2017 08:00 CET



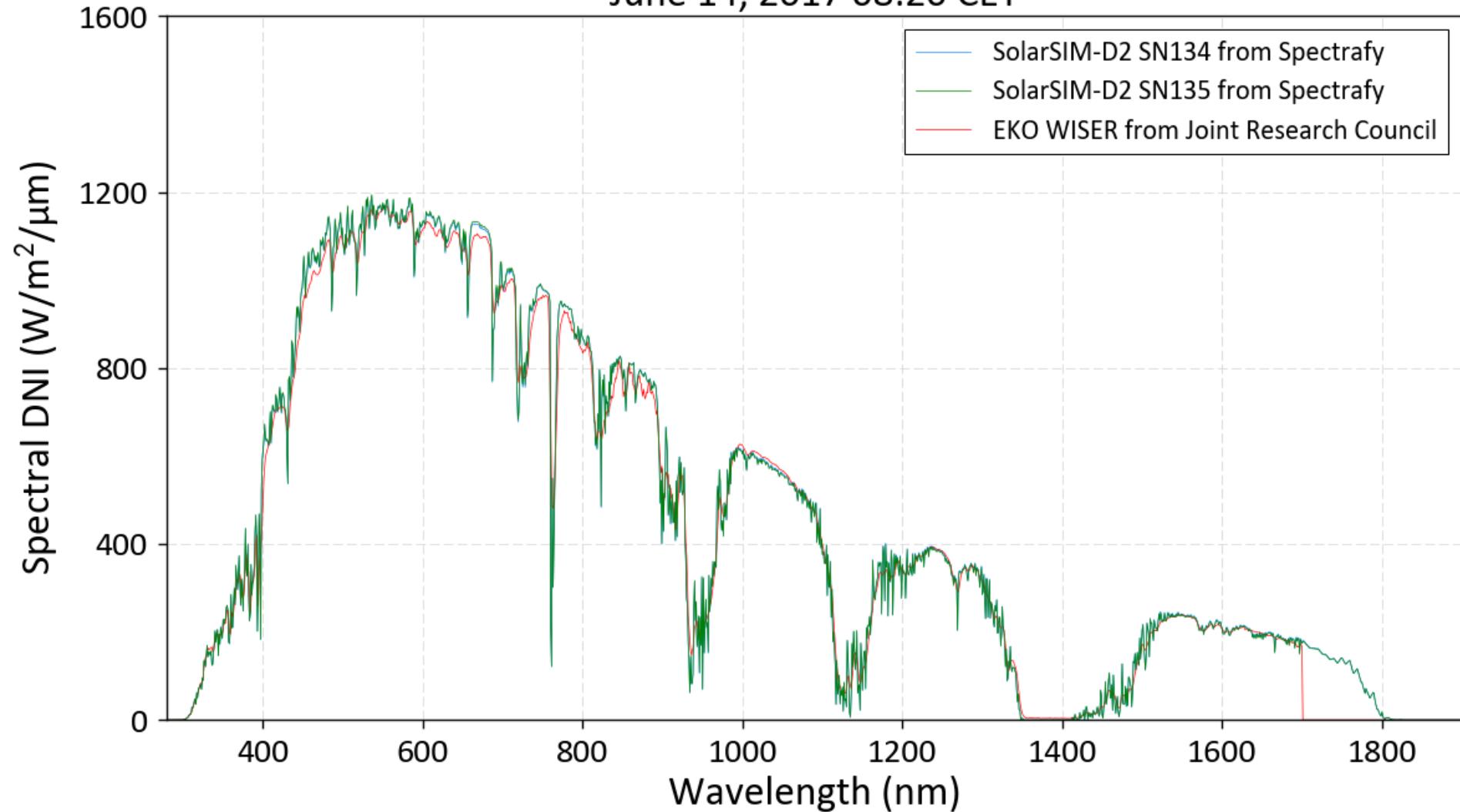
# SolarSIM-D2: spectral DNI data

June 14, 2017 08:10 CET



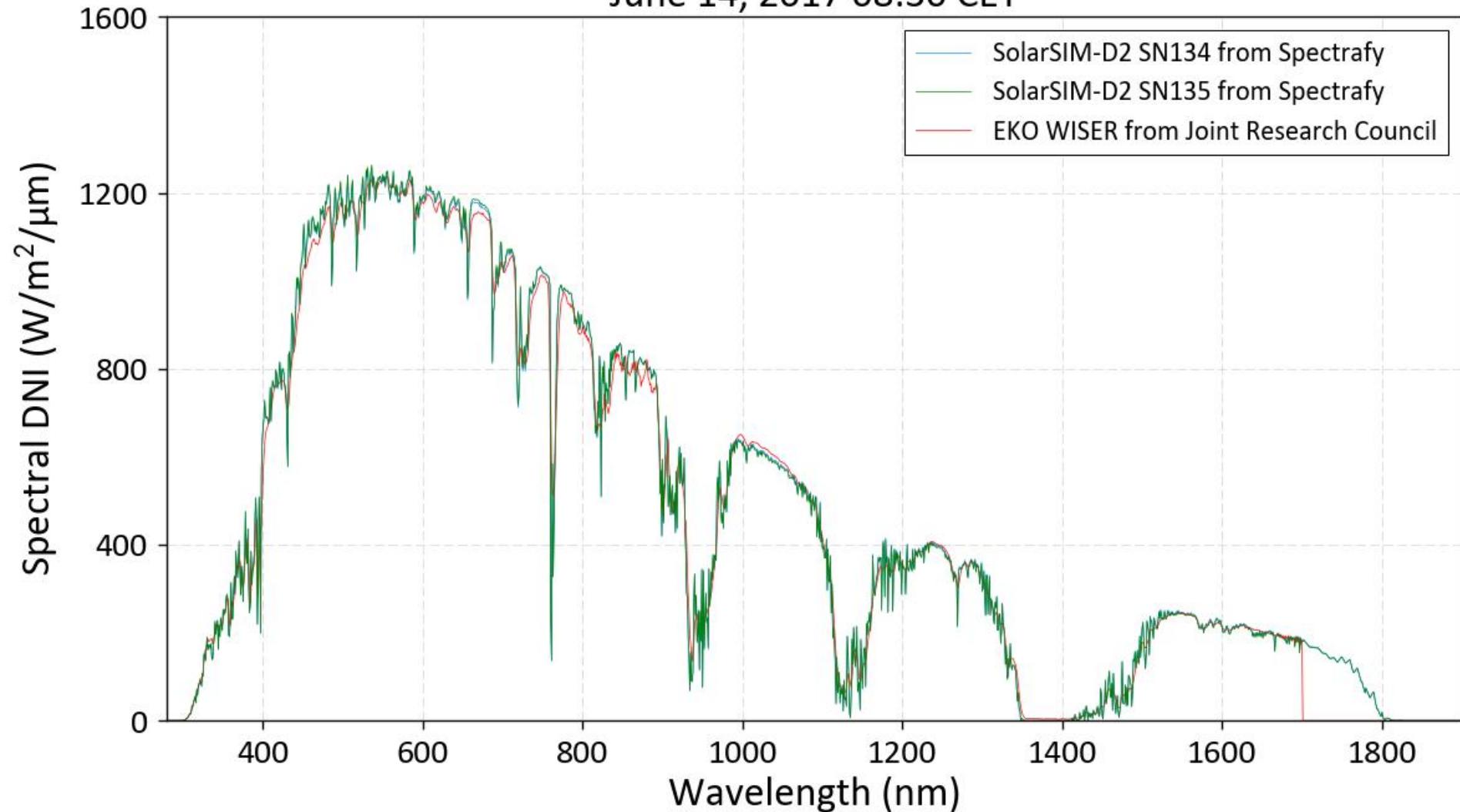
# SolarSIM-D2: spectral DNI data

June 14, 2017 08:20 CET



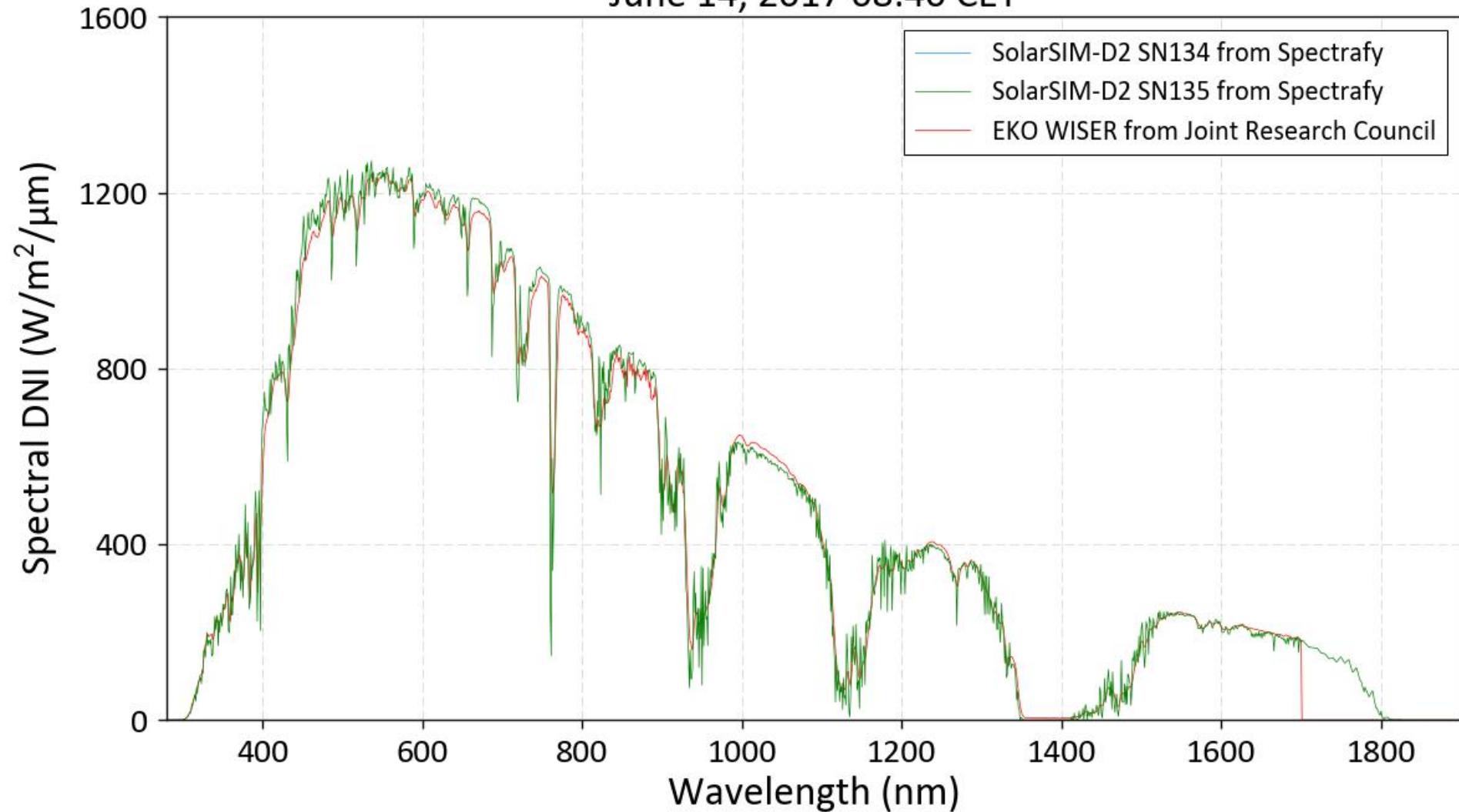
# SolarSIM-D2: spectral DNI data

June 14, 2017 08:30 CET



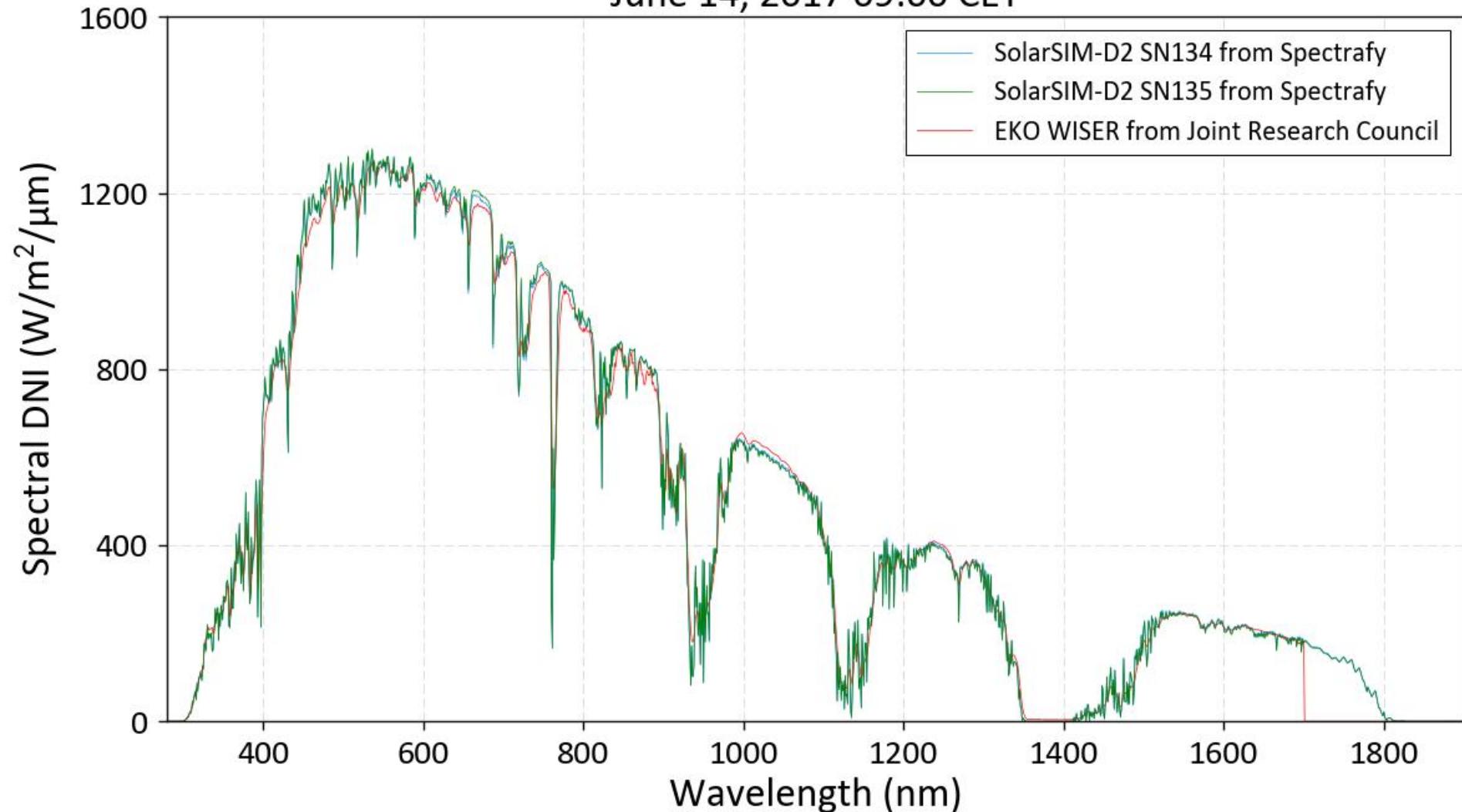
# SolarSIM-D2: spectral DNI data

June 14, 2017 08:40 CET



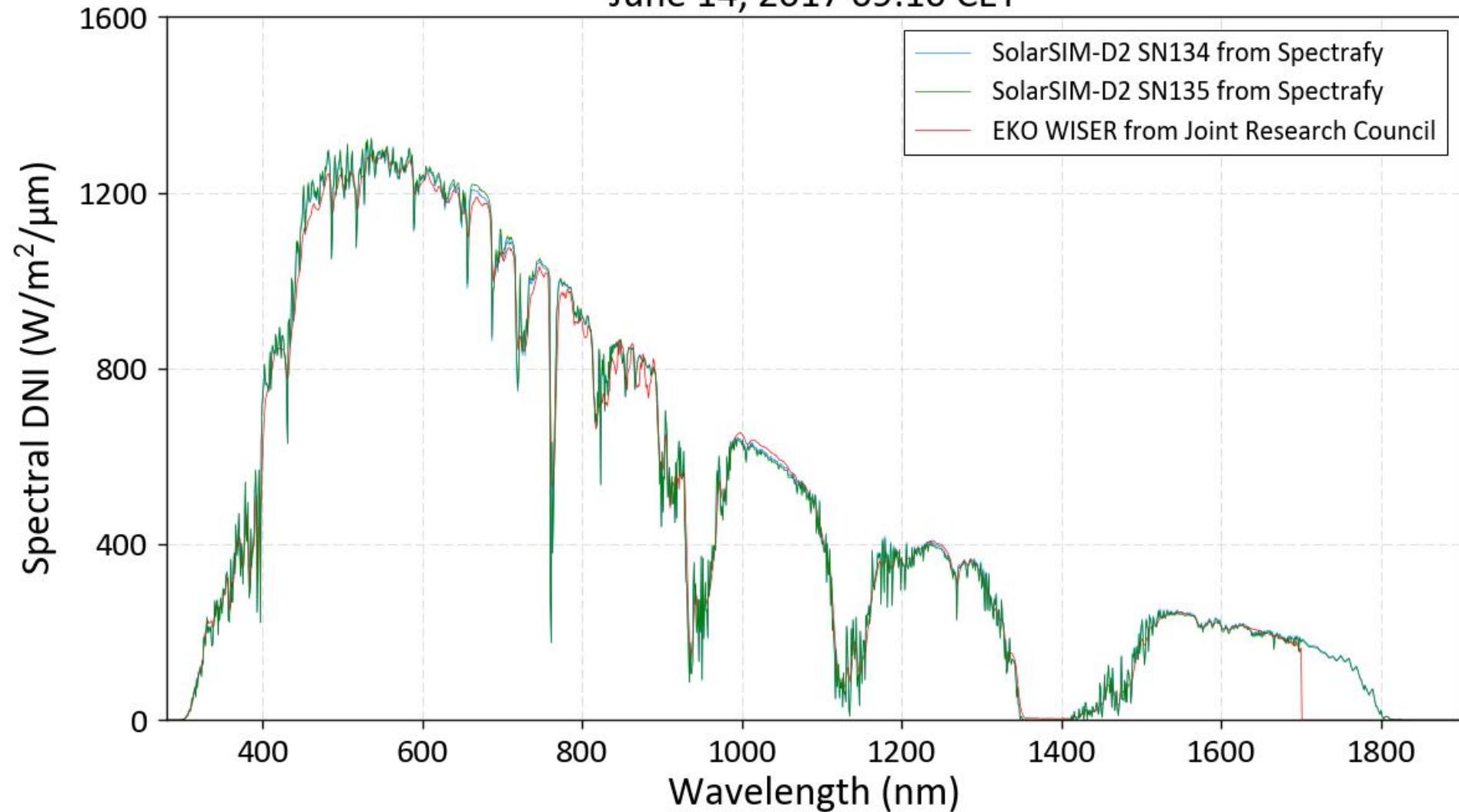
# SolarSIM-D2: spectral DNI data

June 14, 2017 09:00 CET



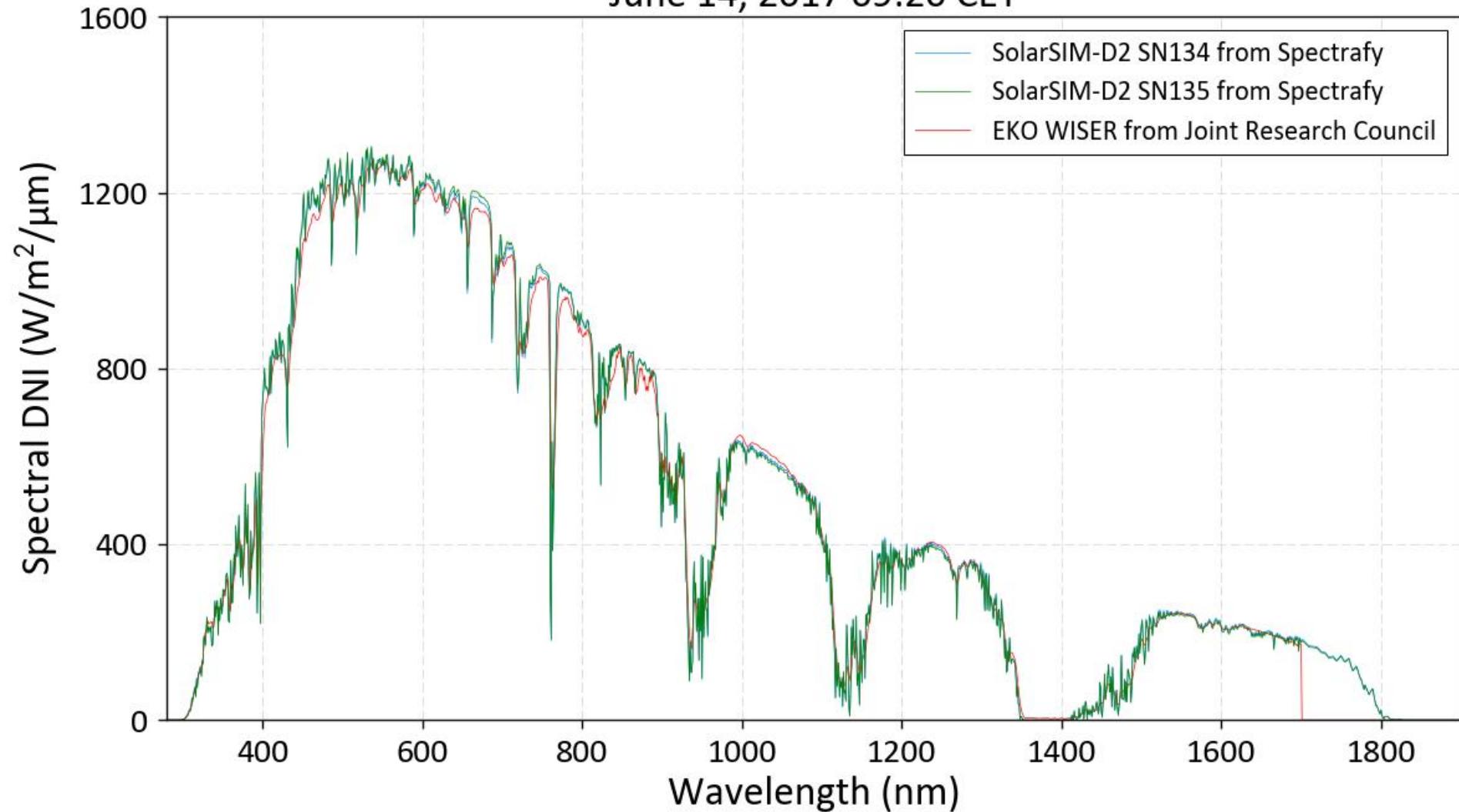
# SolarSIM-D2: spectral DNI data

June 14, 2017 09:10 CET



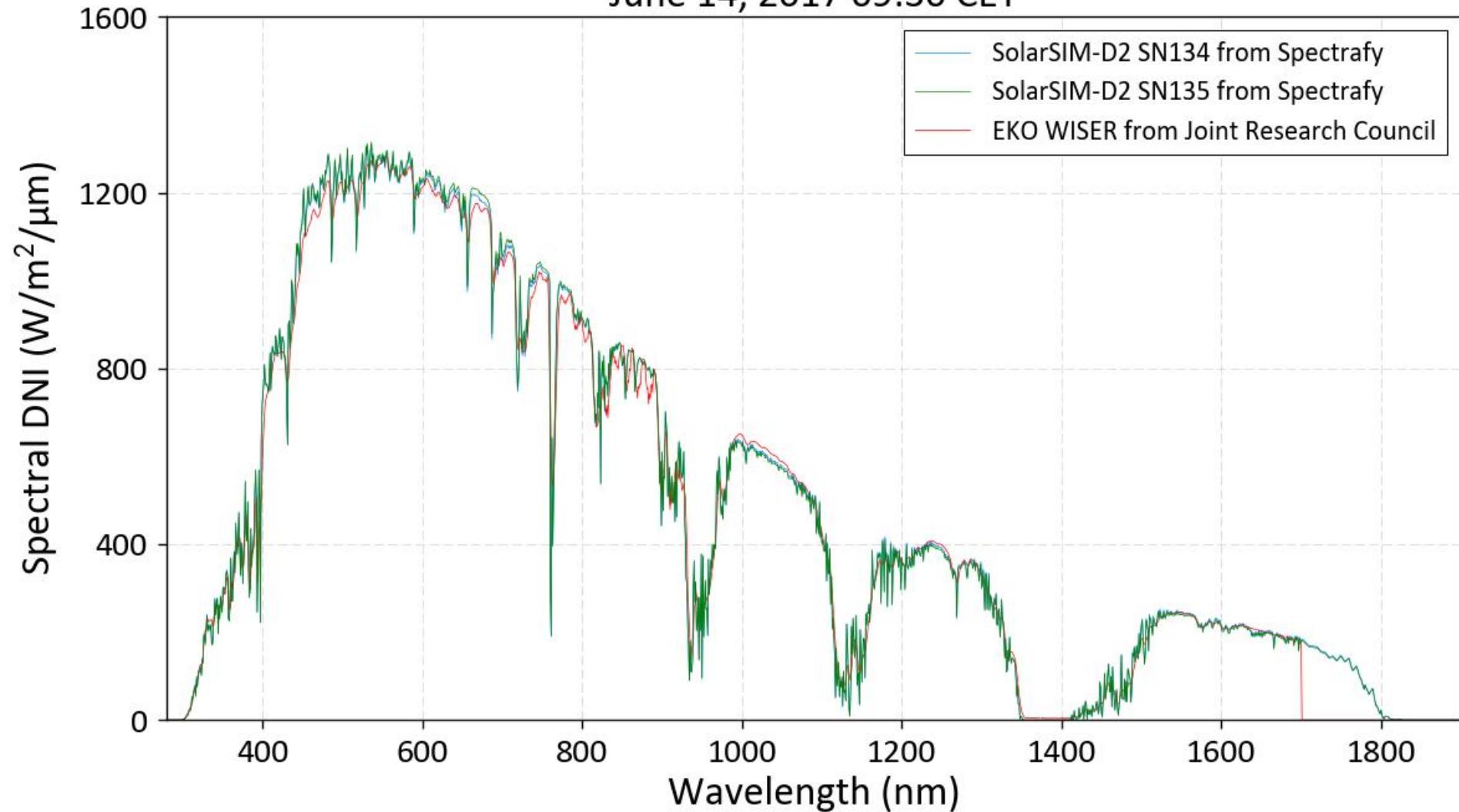
# SolarSIM-D2: spectral DNI data

June 14, 2017 09:20 CET



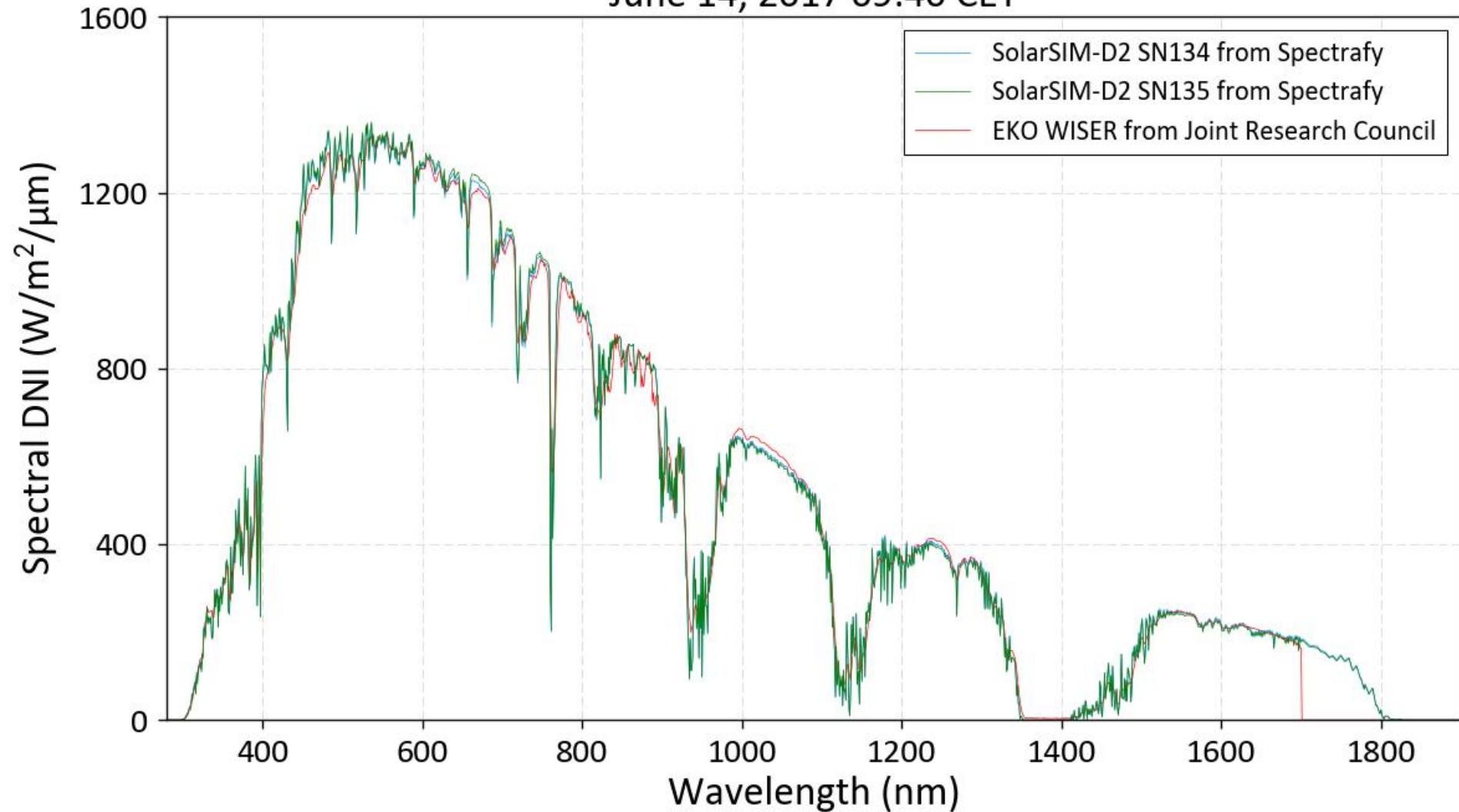
# SolarSIM-D2: spectral DNI data

June 14, 2017 09:30 CET



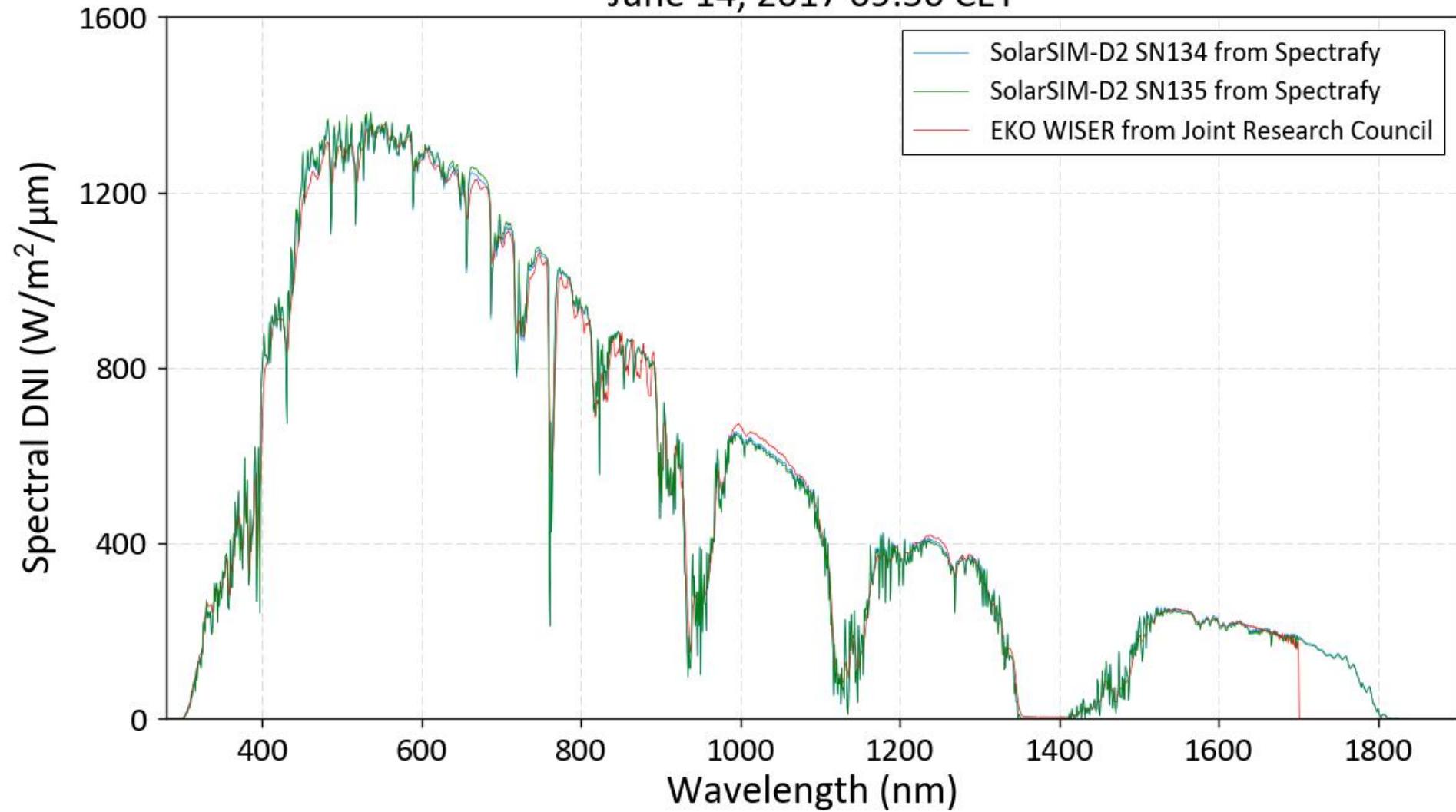
# SolarSIM-D2: spectral DNI data

June 14, 2017 09:40 CET



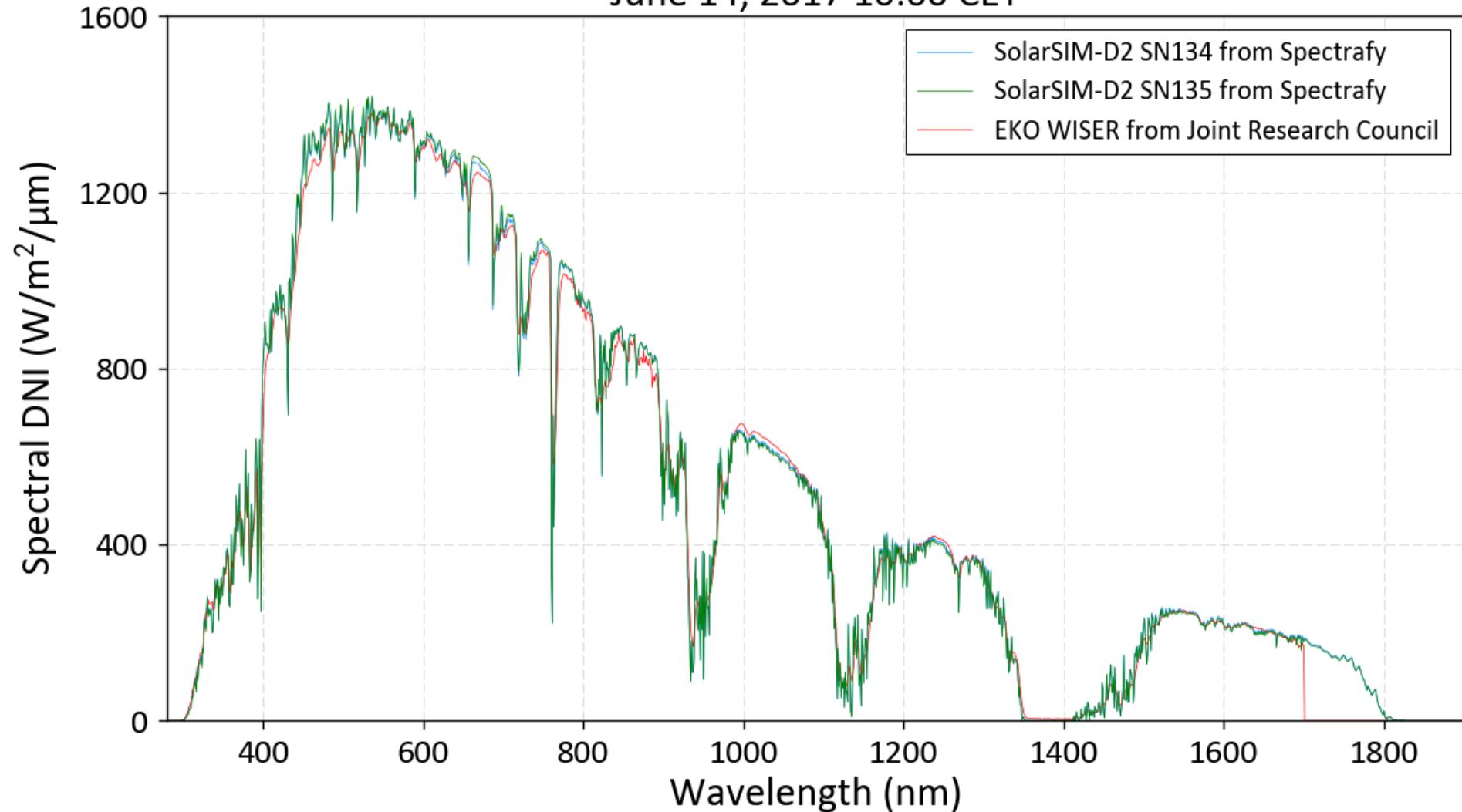
# SolarSIM-D2: spectral DNI data

June 14, 2017 09:50 CET



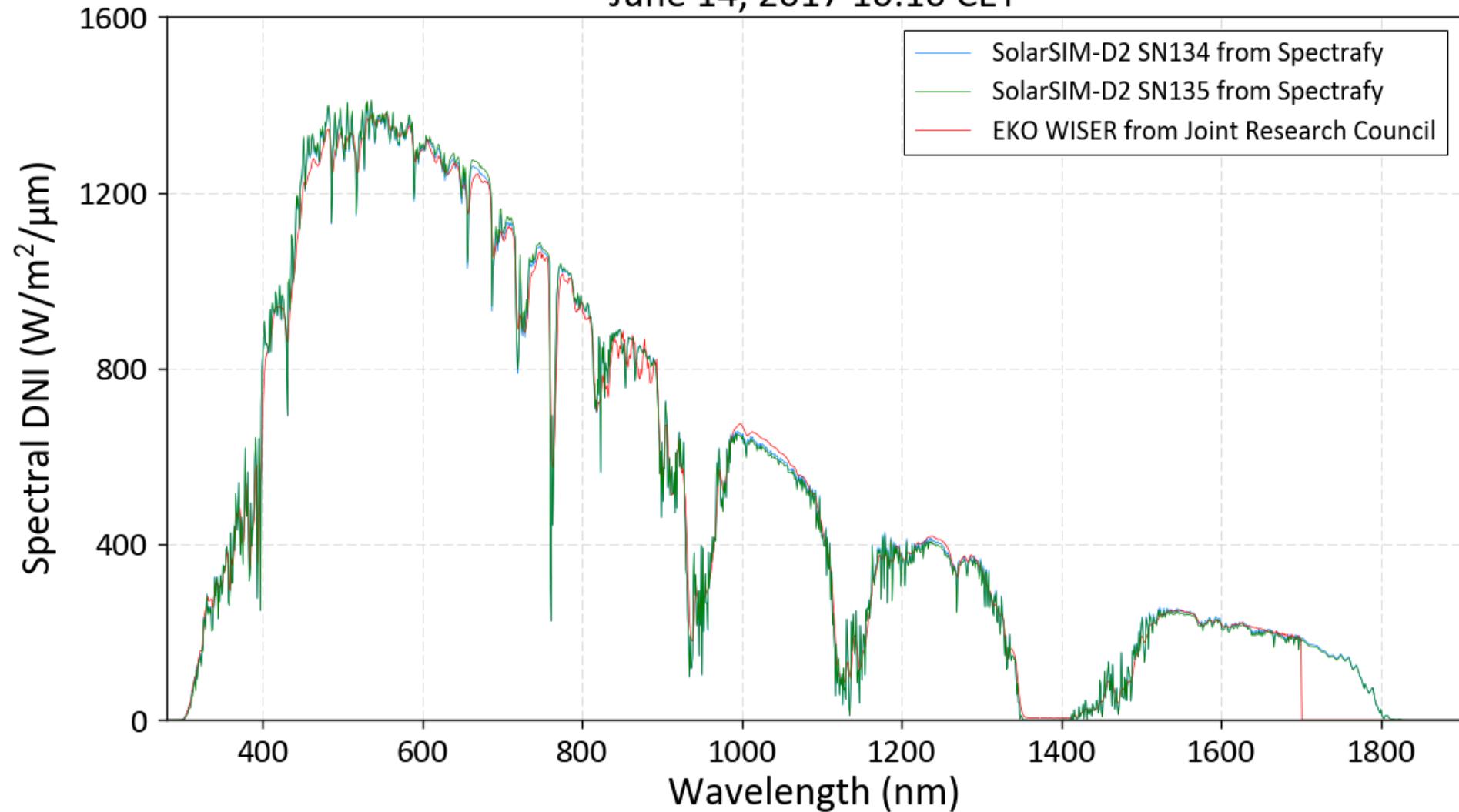
# SolarSIM-D2: spectral DNI data

June 14, 2017 10:00 CET



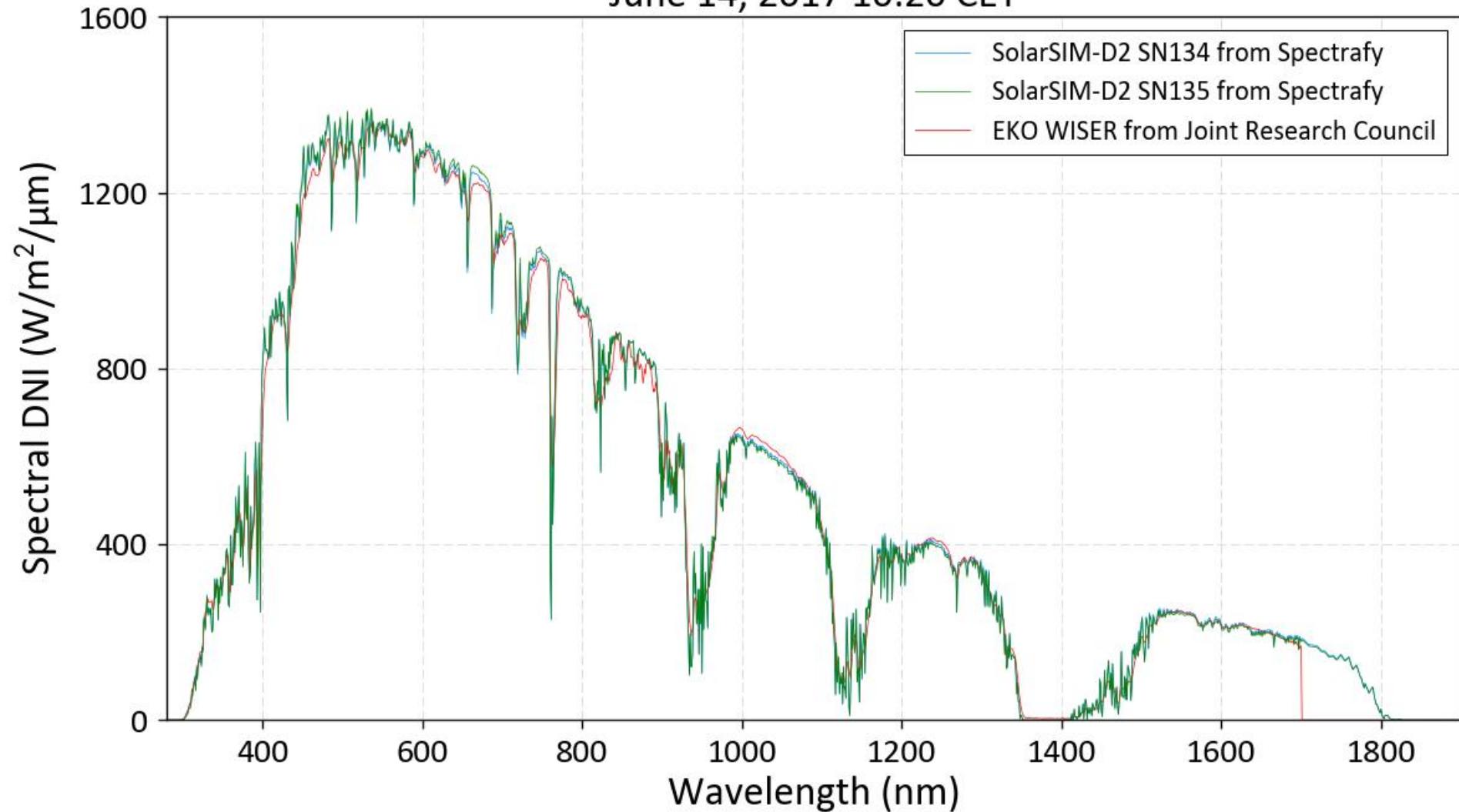
# SolarSIM-D2: spectral DNI data

June 14, 2017 10:10 CET



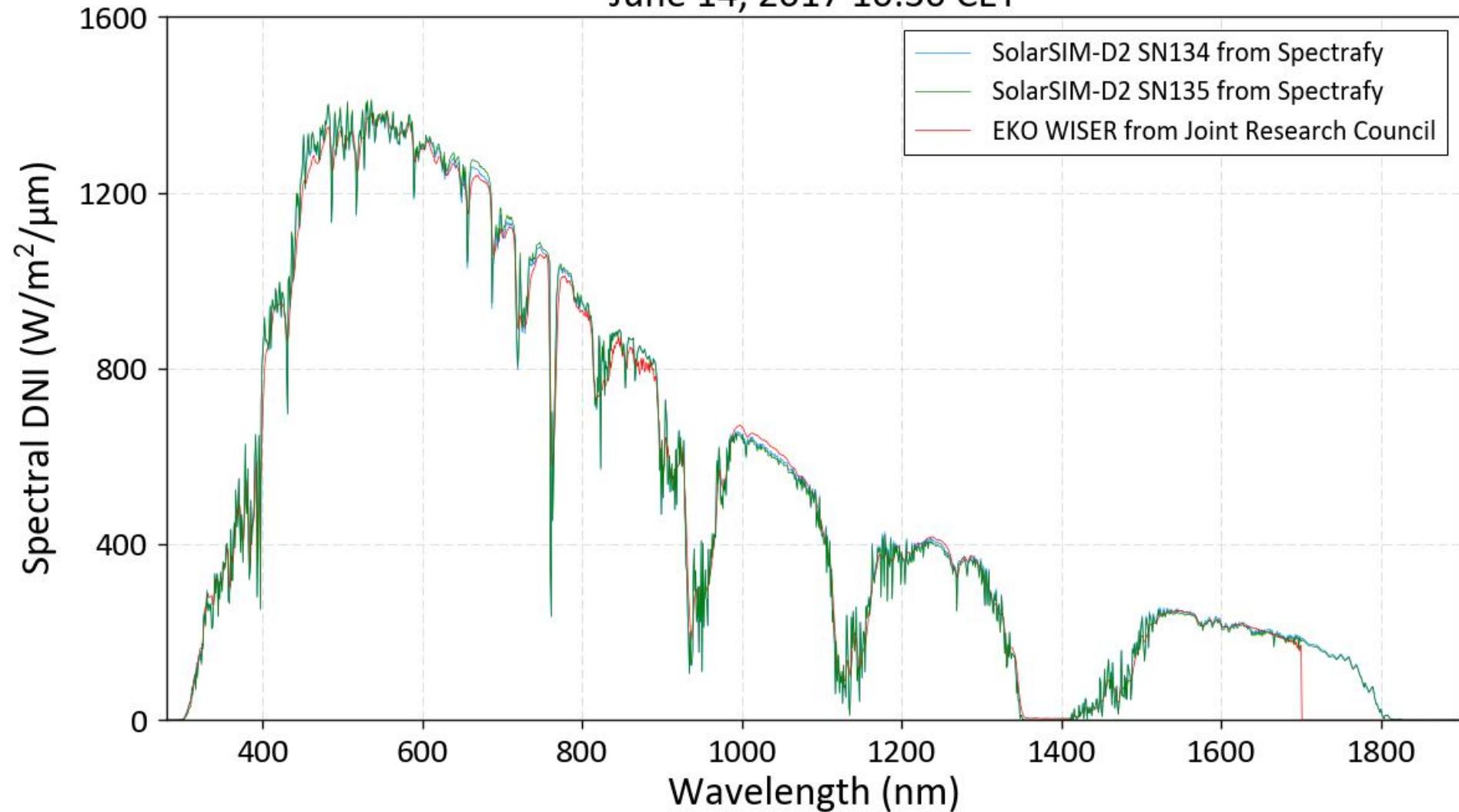
# SolarSIM-D2: spectral DNI data

June 14, 2017 10:20 CET



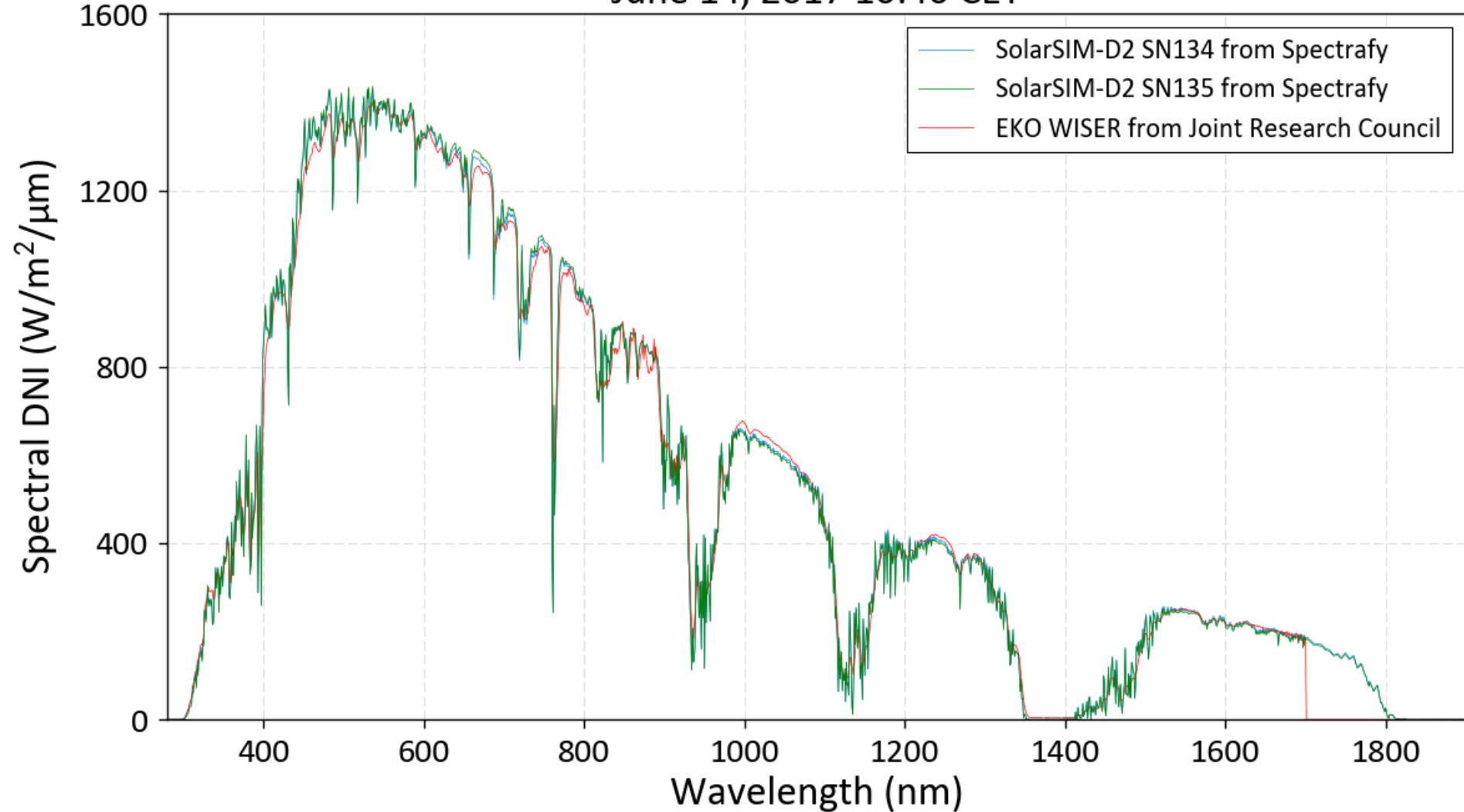
# SolarSIM-D2: spectral DNI data

June 14, 2017 10:30 CET



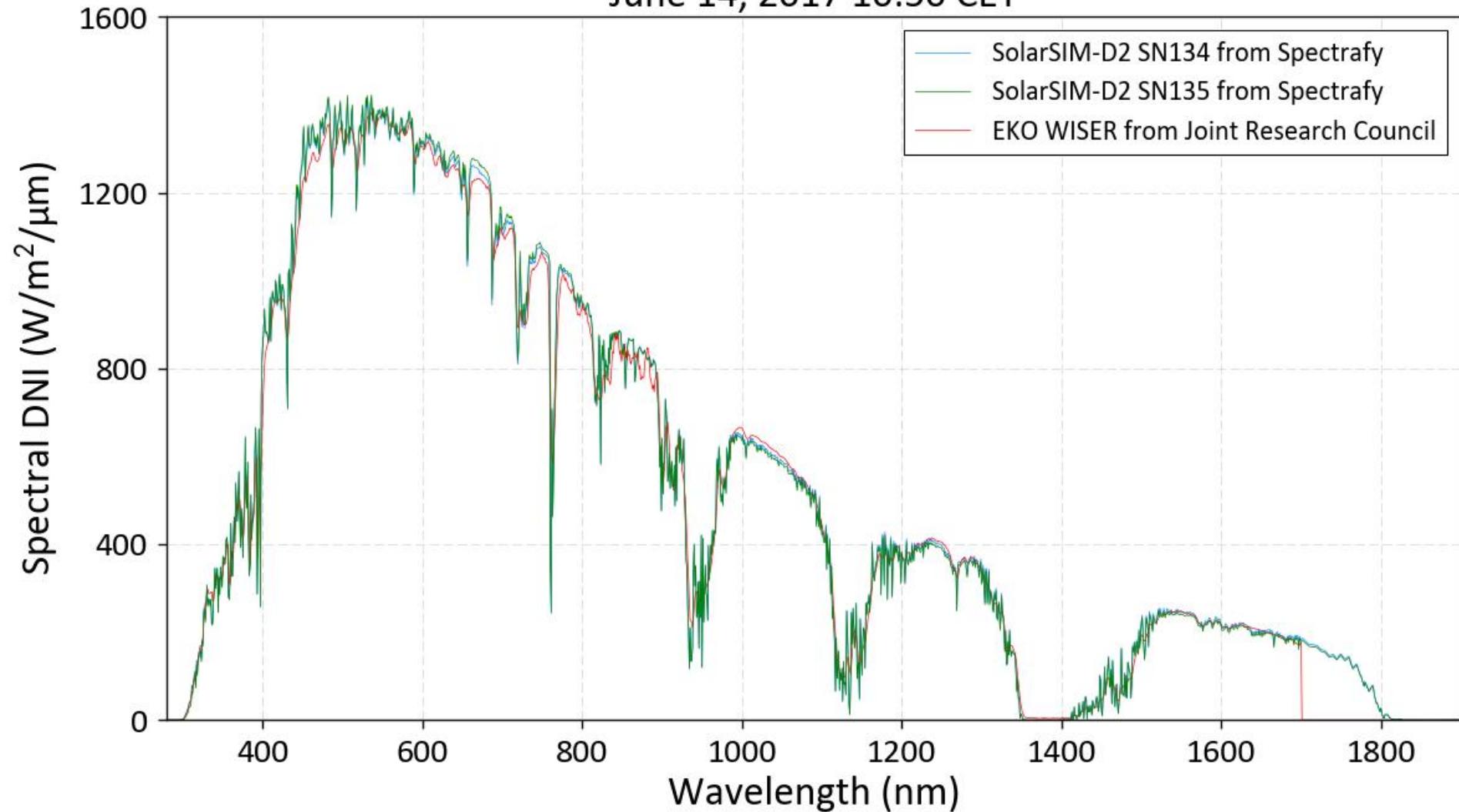
# SolarSIM-D2: spectral DNI data

June 14, 2017 10:40 CET



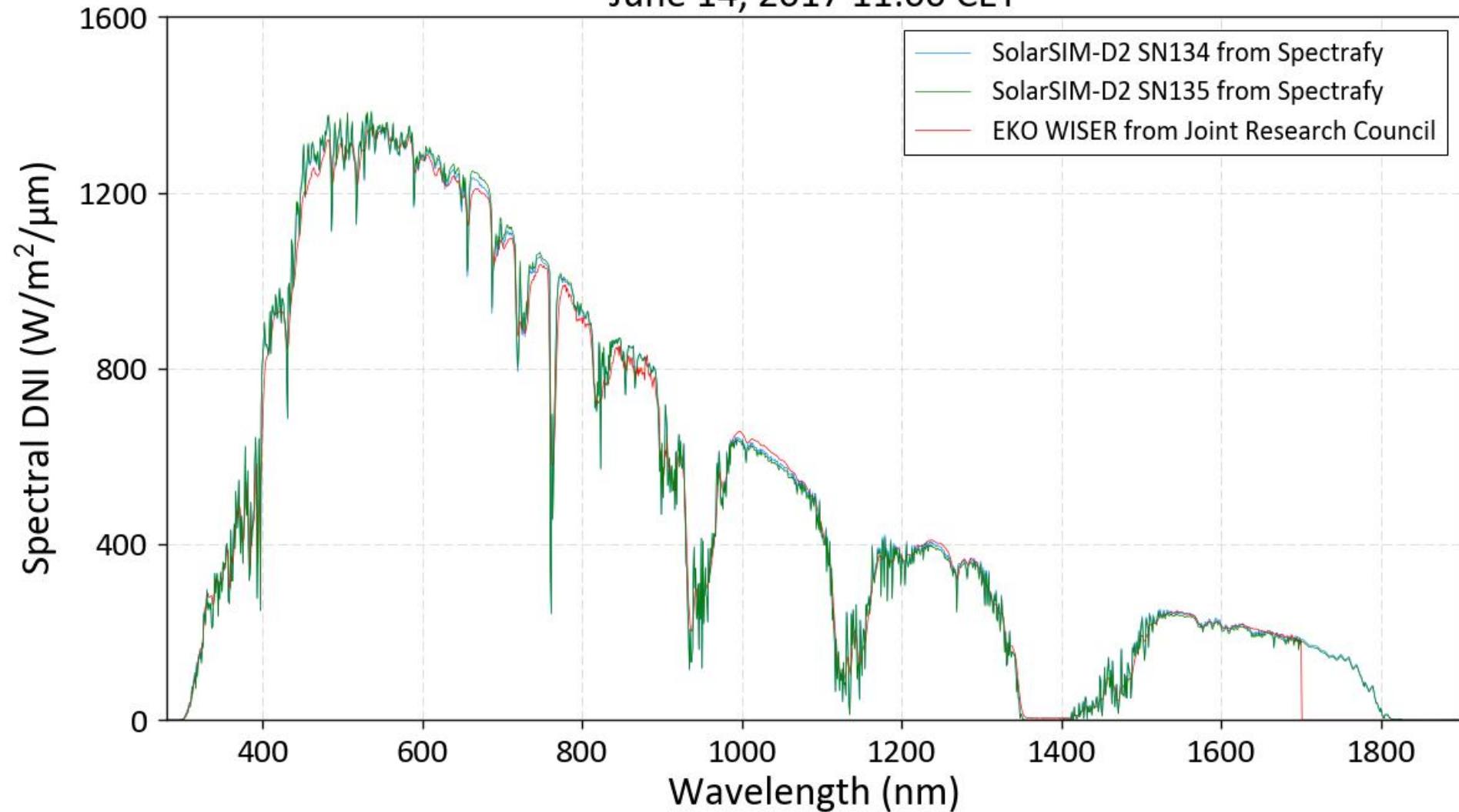
# SolarSIM-D2: spectral DNI data

June 14, 2017 10:50 CET



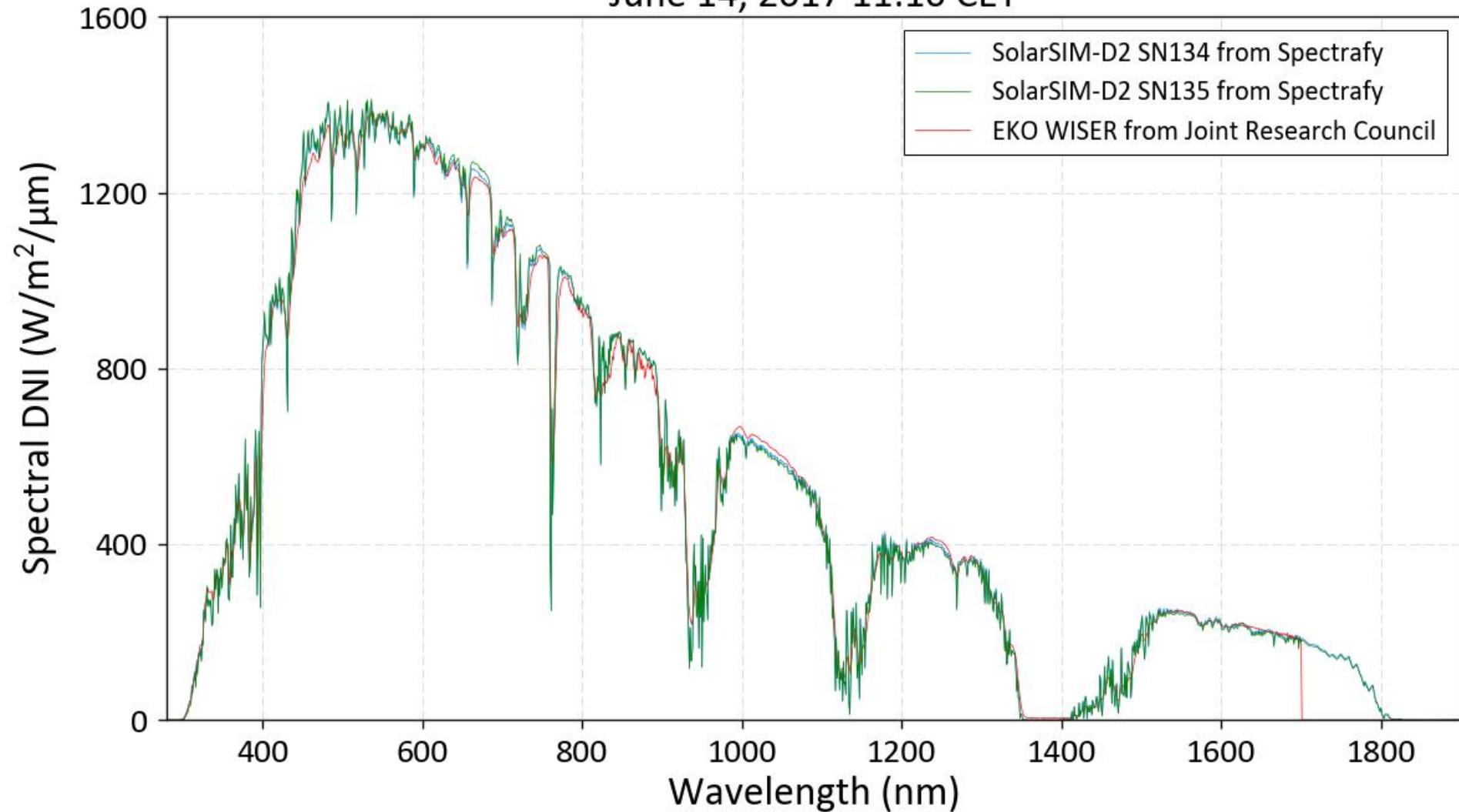
# SolarSIM-D2: spectral DNI data

June 14, 2017 11:00 CET



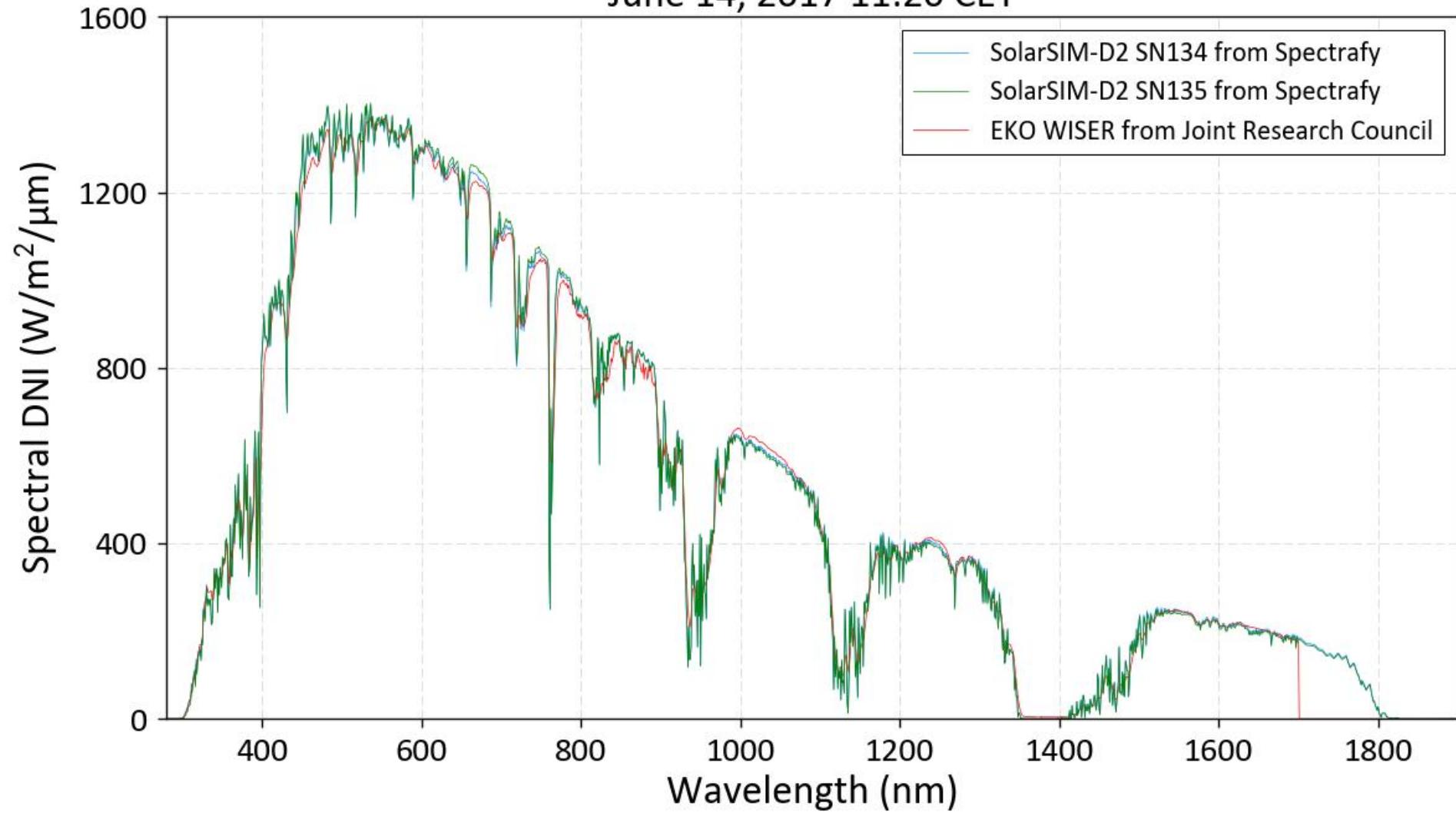
# SolarSIM-D2: spectral DNI data

June 14, 2017 11:10 CET



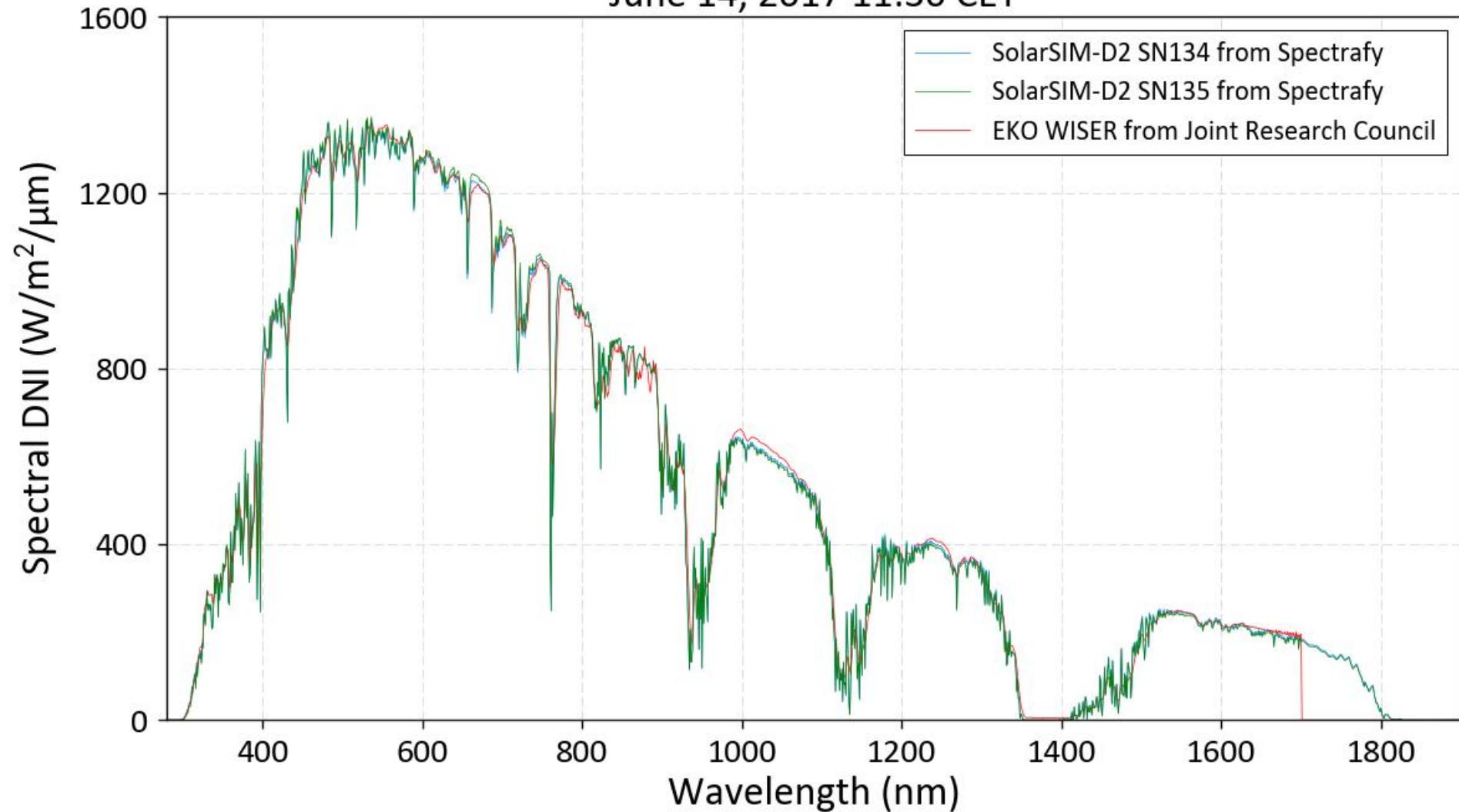
# SolarSIM-D2: spectral DNI data

June 14, 2017 11:20 CET



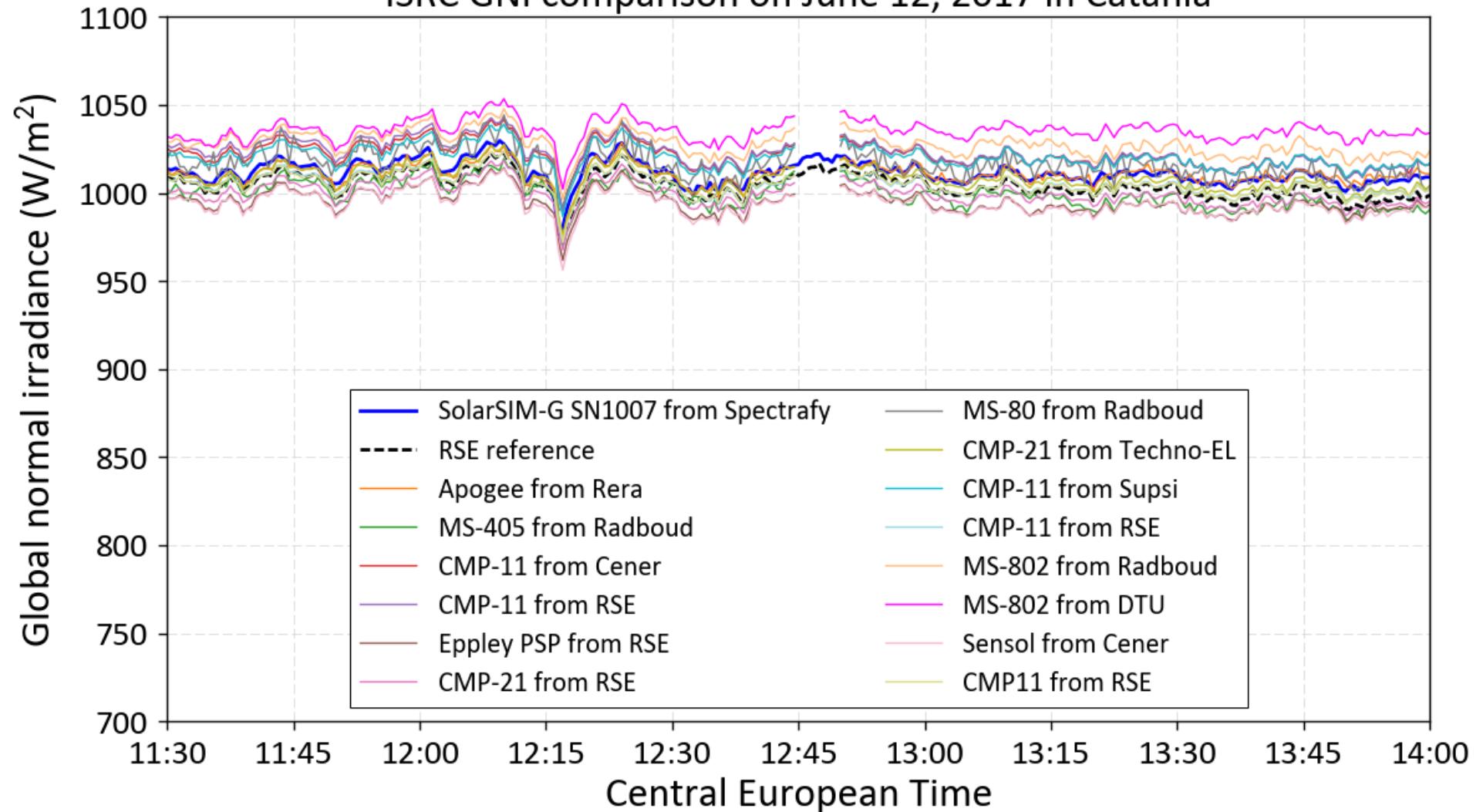
# SolarSIM-D2: spectral DNI data

June 14, 2017 11:30 CET



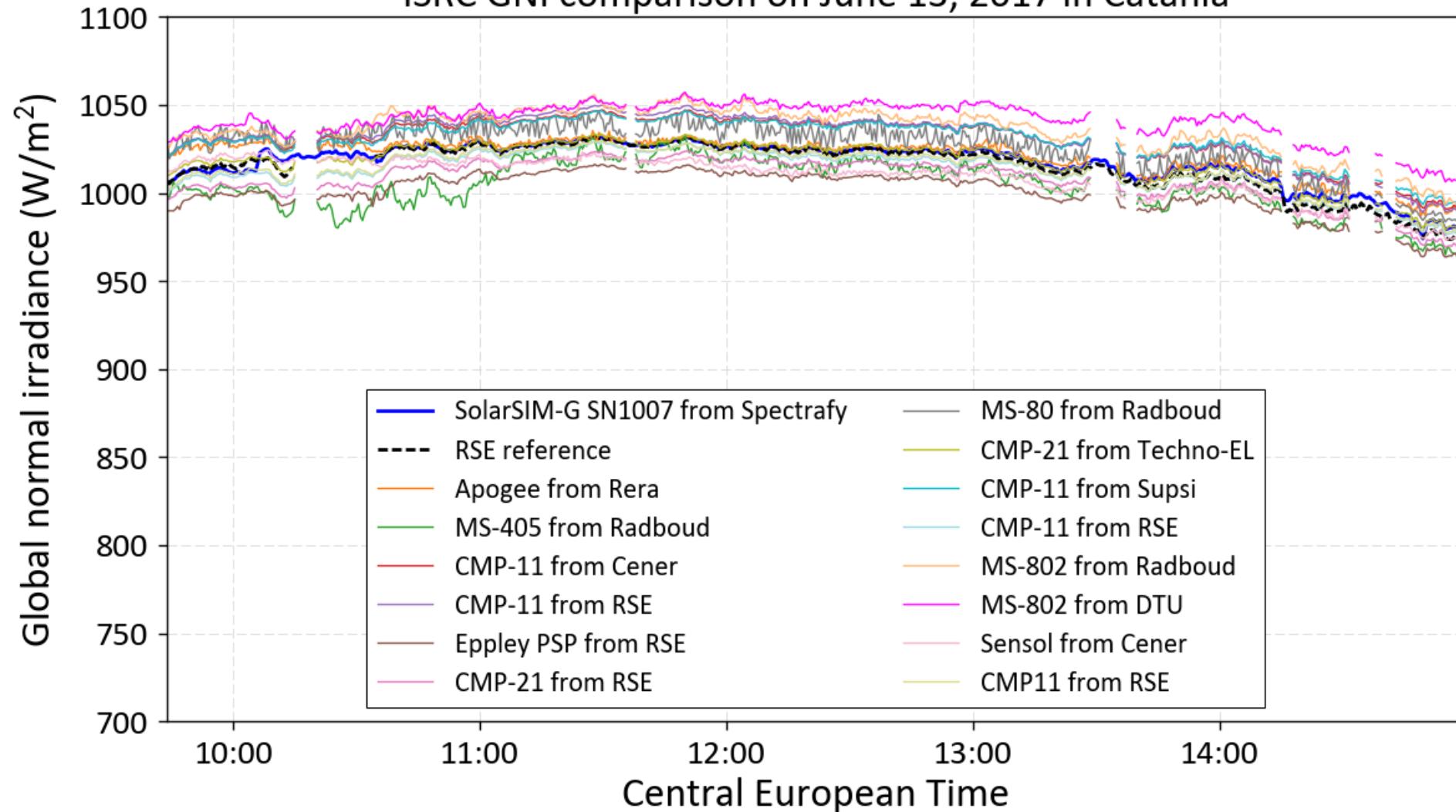
# SolarSIM-G: GNI data

ISRC GNI comparison on June 12, 2017 in Catania



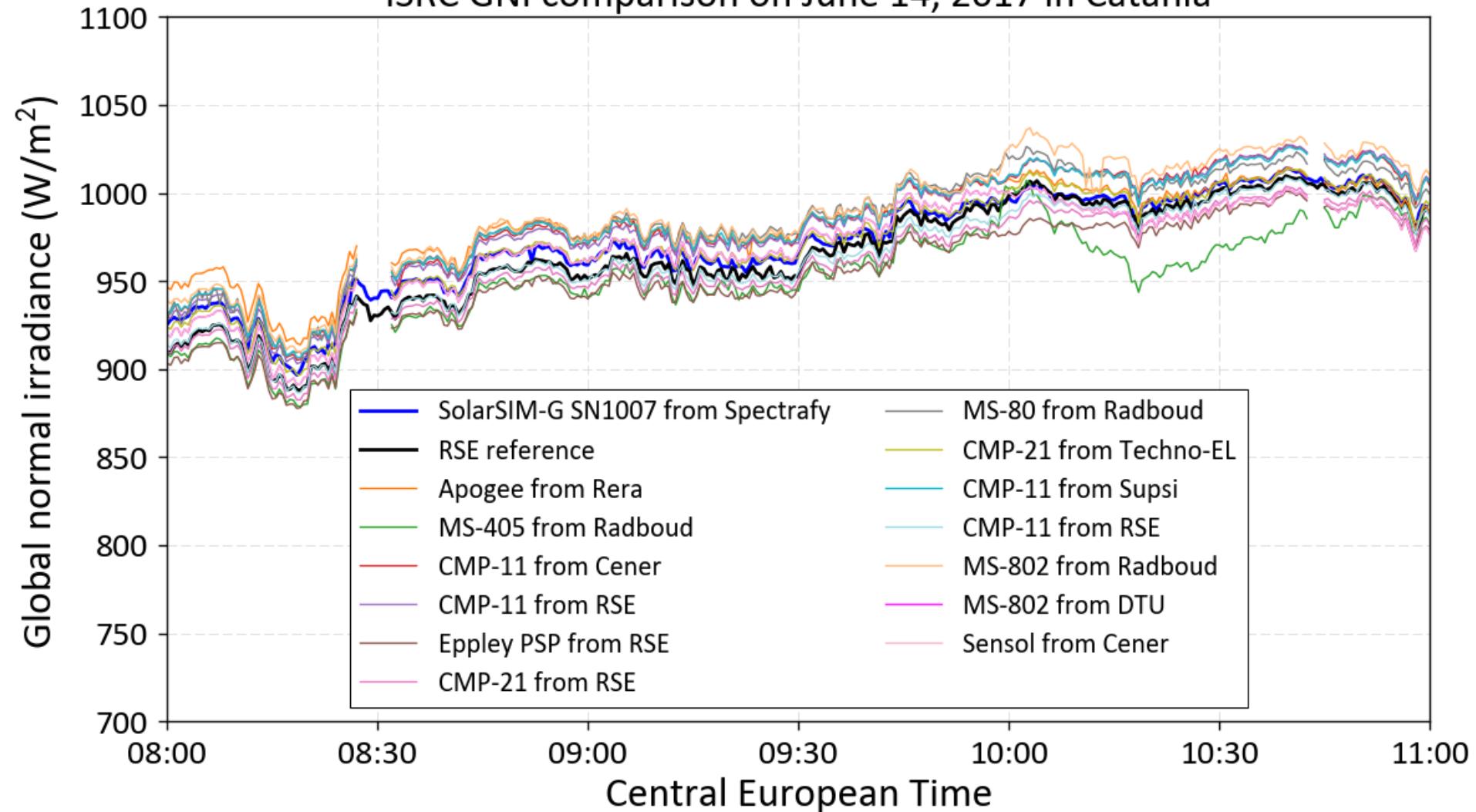
# SolarSIM-G: GNI data

ISRC GNI comparison on June 13, 2017 in Catania



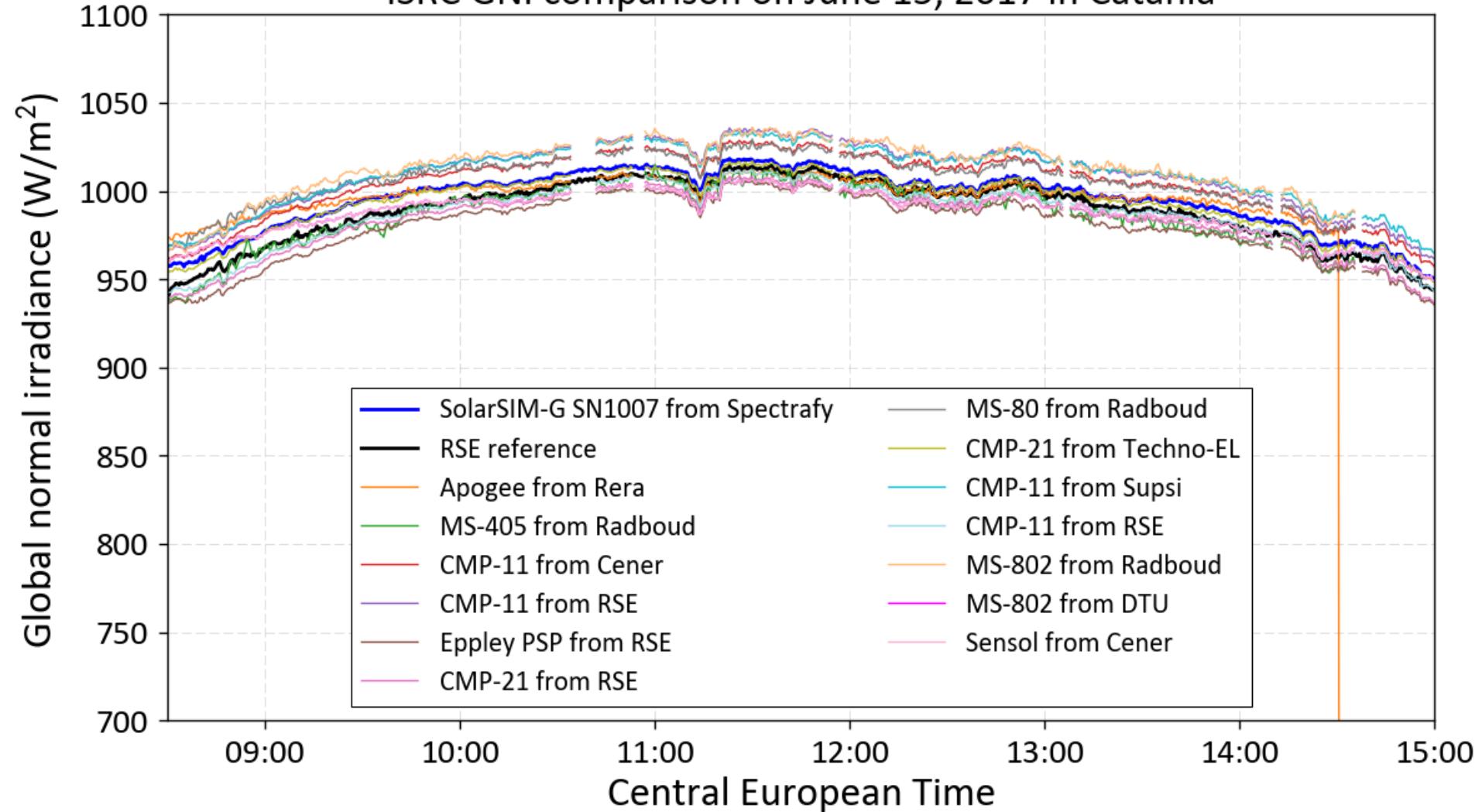
# SolarSIM-G: GNI data

ISRC GNI comparison on June 14, 2017 in Catania



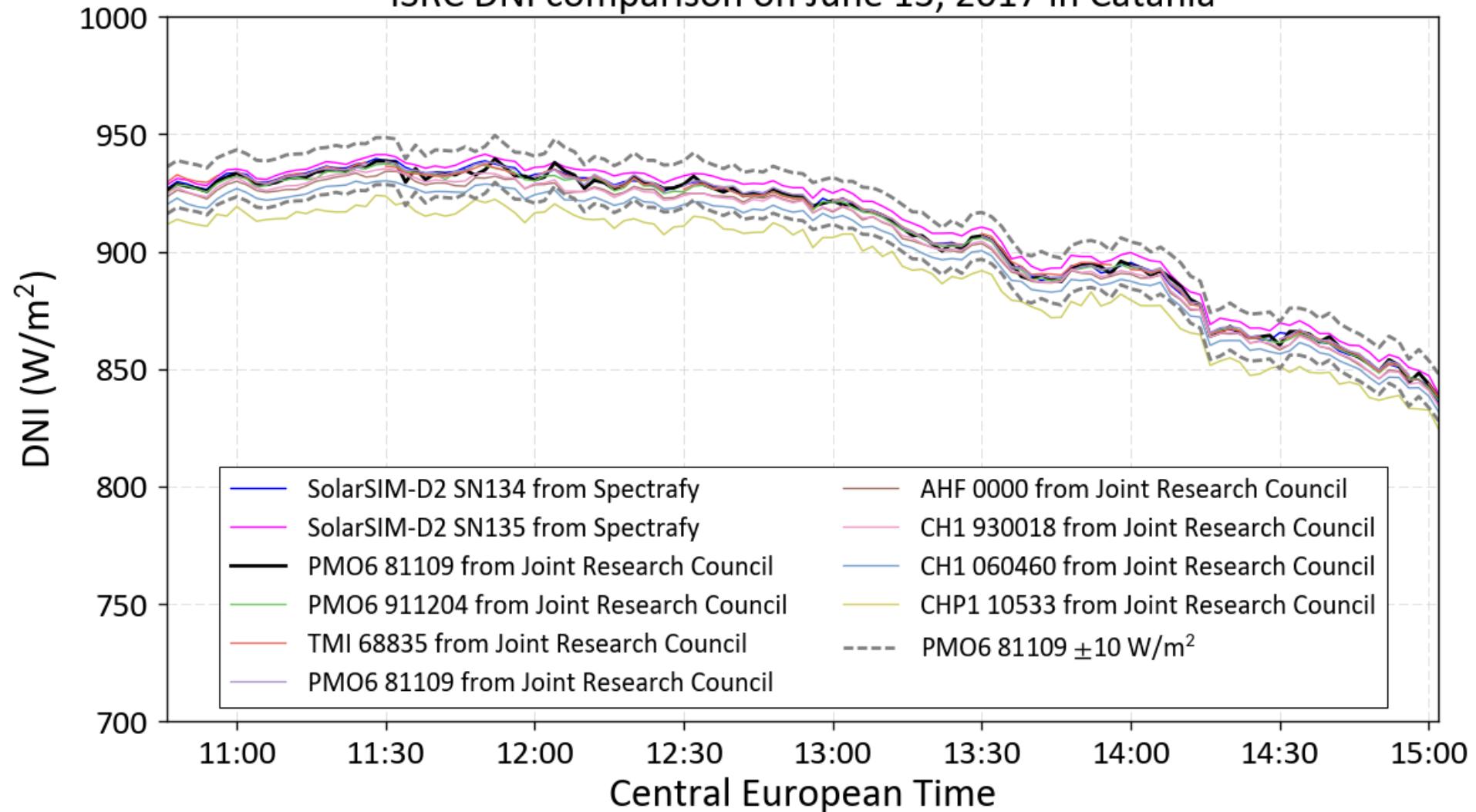
# SolarSIM-G: GNI data

ISRC GNI comparison on June 15, 2017 in Catania



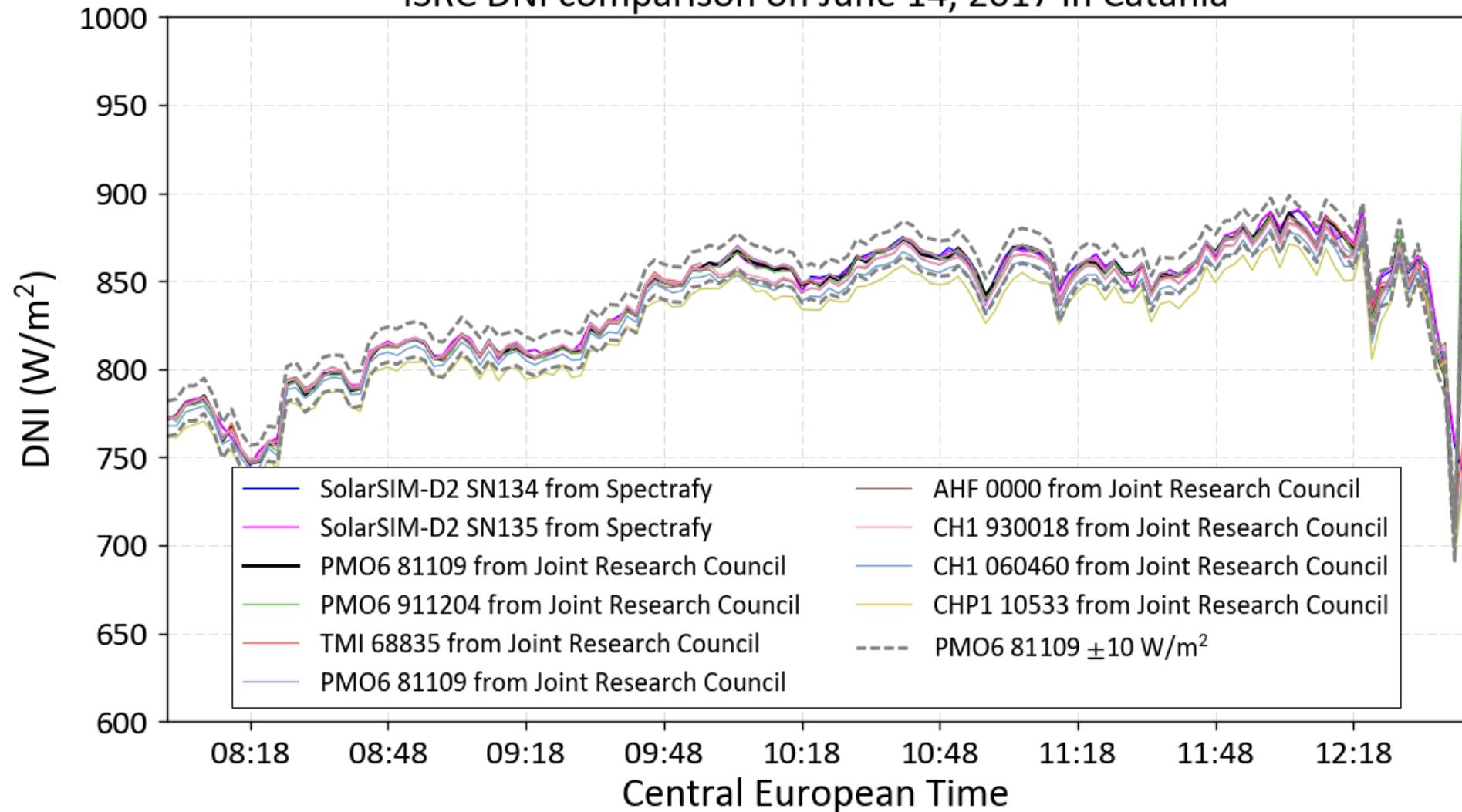
# SolarSIM-D2: DNI data

ISRC DNI comparison on June 13, 2017 in Catania



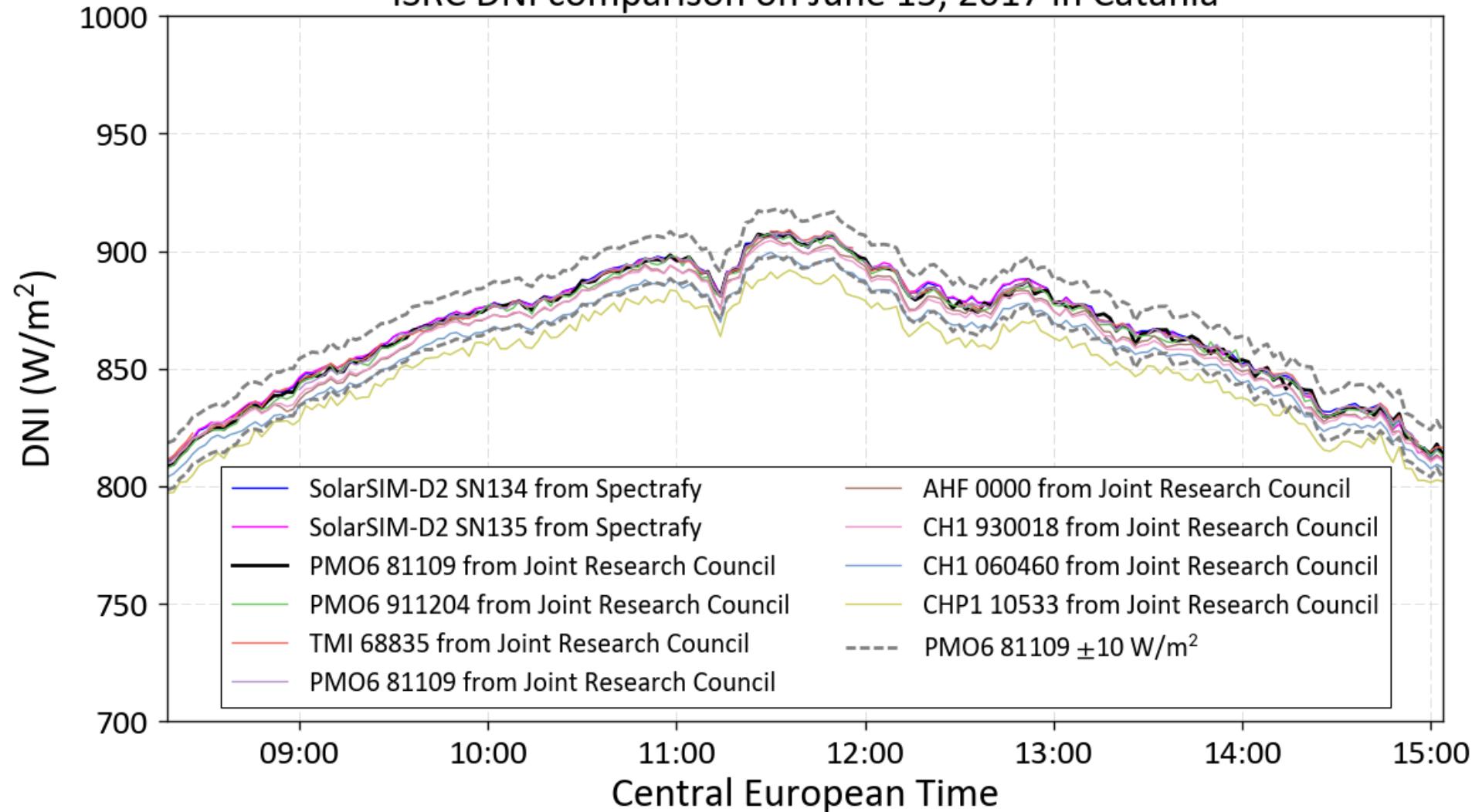
# SolarSIM-D2: DNI data

ISRC DNI comparison on June 14, 2017 in Catania



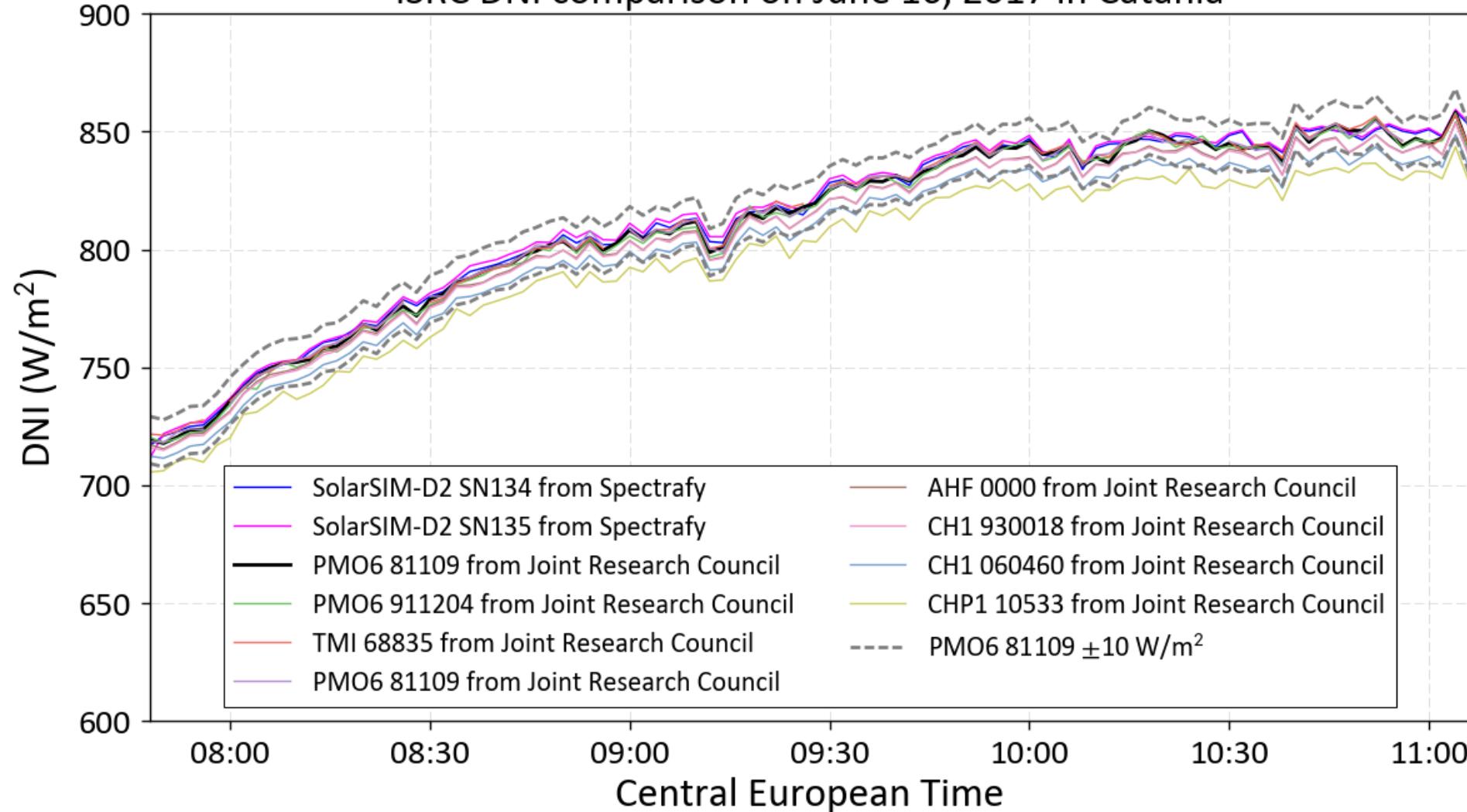
# SolarSIM-D2: DNI data

ISRC DNI comparison on June 15, 2017 in Catania



# SolarSIM-D2: DNI data

ISRC DNI comparison on June 16, 2017 in Catania





**Spectrafy™**  
solar spectral sensors

4 Florence St, Ottawa, ON K2P 0W7, Canada  
p: +1 (613) 237-2020  
[www.spectrafy.com](http://www.spectrafy.com)