

PP CARMA

Common Area with Rfdbk/MEC Application

(INTERMEDIARY) RESULTS

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OVERVIEW

1. Quick follow-up on issues

2. Results

- ✓ **NMA**
- ✓ **IMGW**
- ✓ **COMET**
- ✓ **DWD**
- ✓ ***comparison***

QUICK FOLLOW-UP ON ISSUES

2. processing of cumulated parameters in MEC (monthly precipitation) – **solved**

Thanks @DWD

3. missing gust data from observations – **solved**

HOW: (coming up... more info)

4. some issues with defining verification area in Rfdbk – **tackled before distributing the template**, so should be **OK**

Problems in Rfdbk are easier to tackle and fix than in MEC!

(pov computational resources & time to re-run)

3. missing gust data from observations – solved

HOW:

- using a new set of observations
 - compared to those from VERSUS, this set contains both the common_new* observations and the common_wg (both sets of data, continuous parameters and wind gust)
 - **Missing stations** from the initial observations set, not for CA, but e.g. Germany, Finland
 - between the two sets of observations, taken separately, there are different numbers of observations for all parameters => scores differ for all parameters (T2m, TD2m, N, FF, DD), not just Gust;
 - Set covers more than CA, so it can be used for individual verification purposes
 - Should cover (almost) all COSMO countries
- **use the archives named with AED (if several archives are still available)**

Consequence: when comparing results to VERSUS, scores might differ!

2m Air Temperature

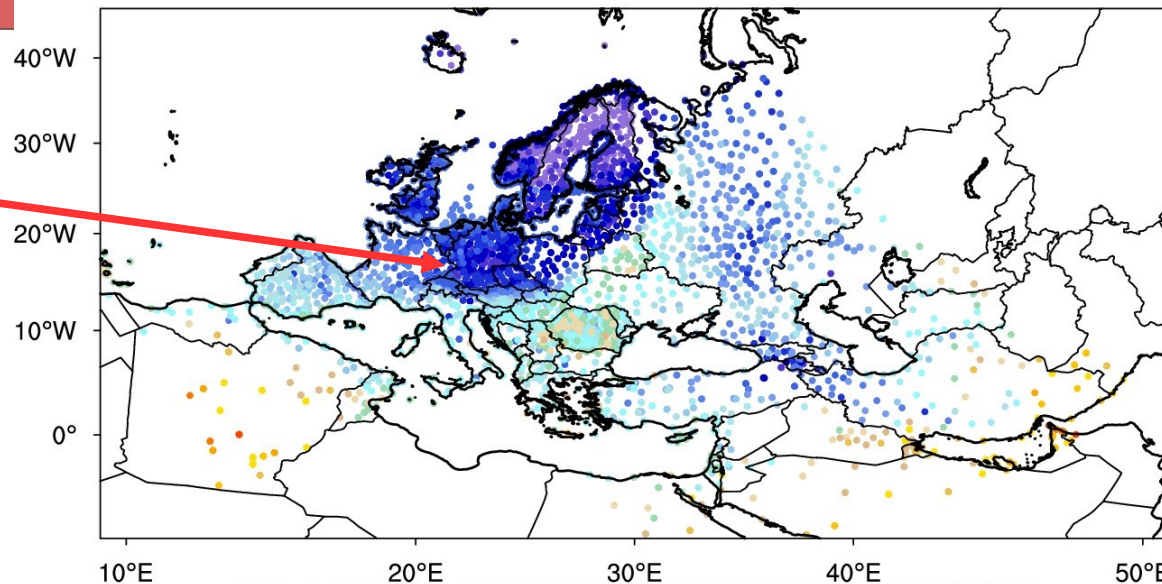
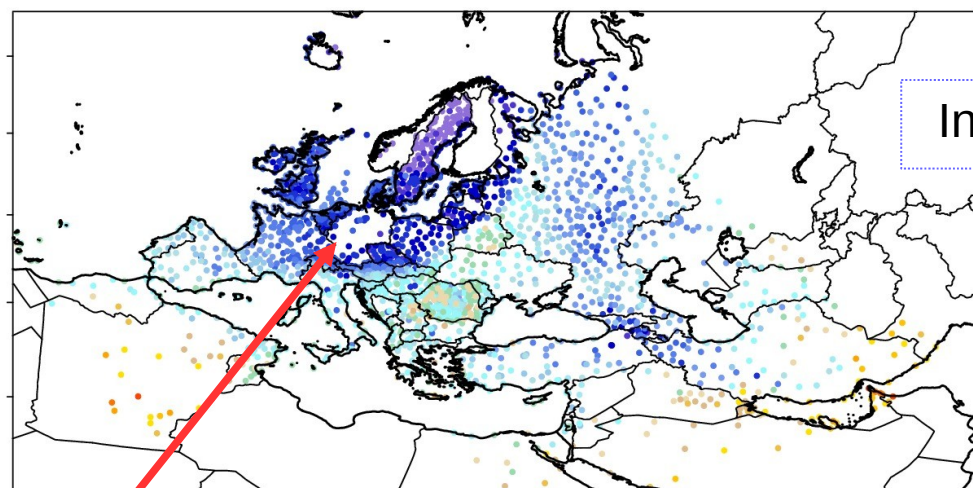
12 May 2020, 00UTC

Initial dataset

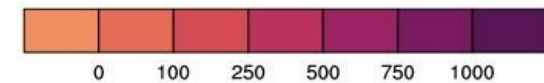
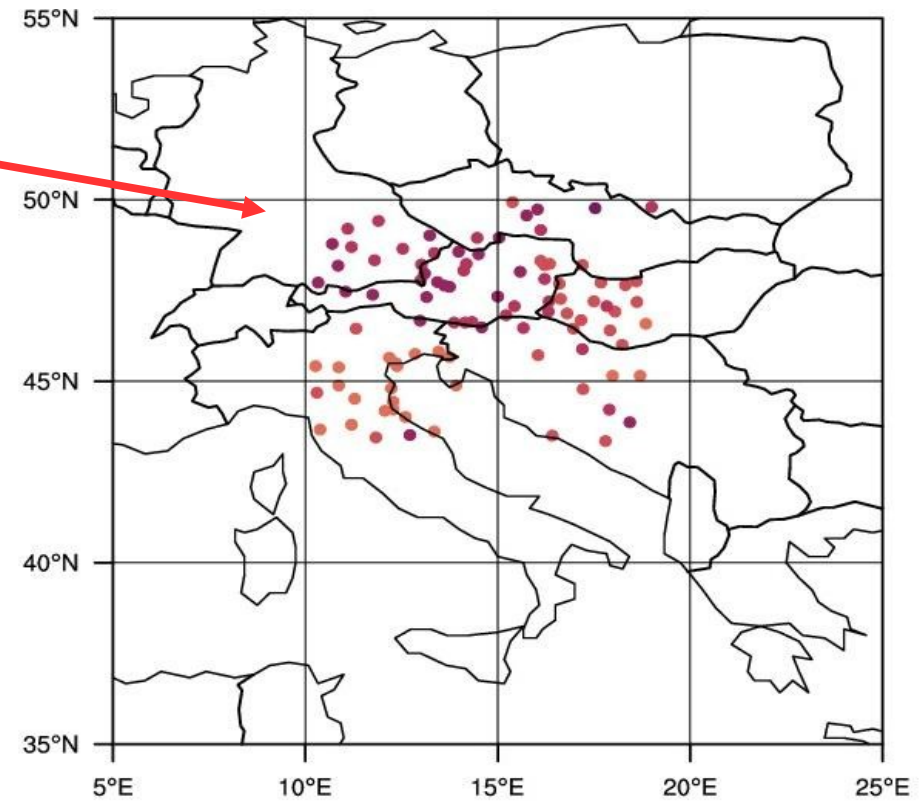
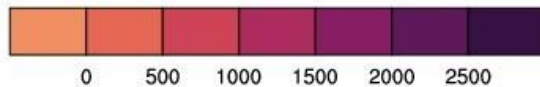
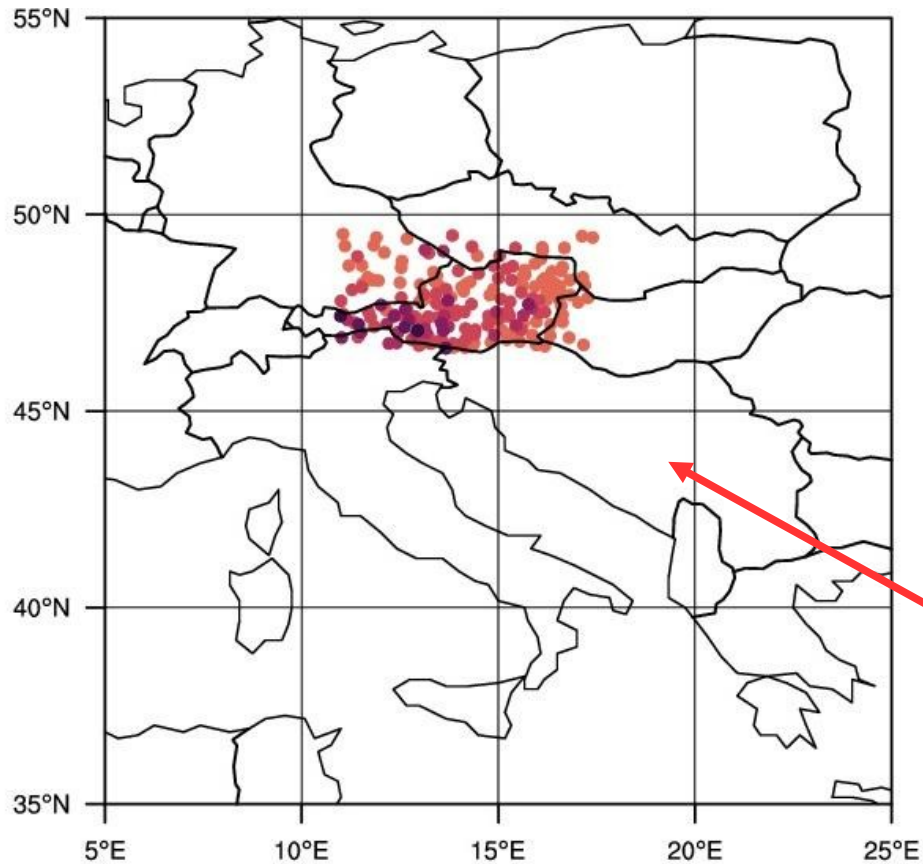
New dataset
(AED)

2m Air Temperature

Thanks @Felix for pointing out the problem

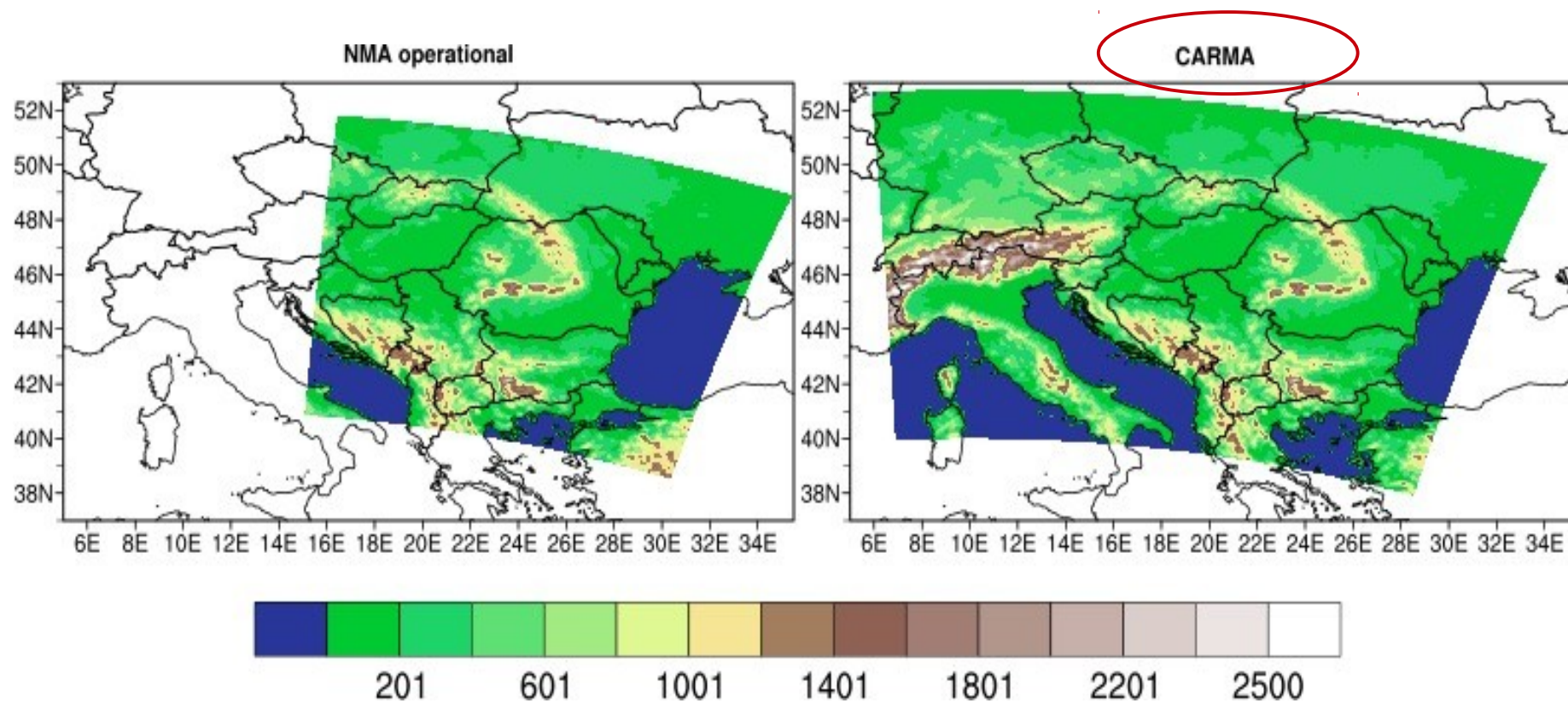


Stations list CA1
96 stations



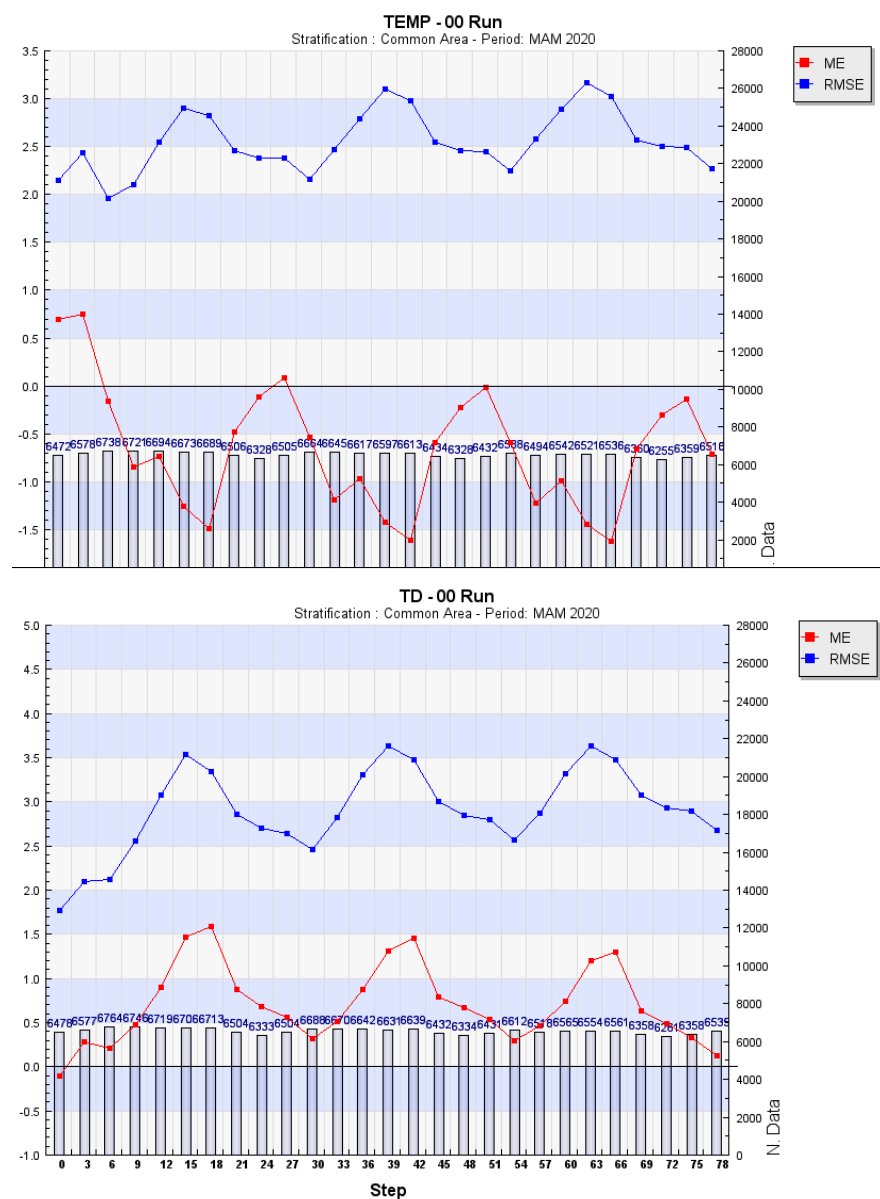
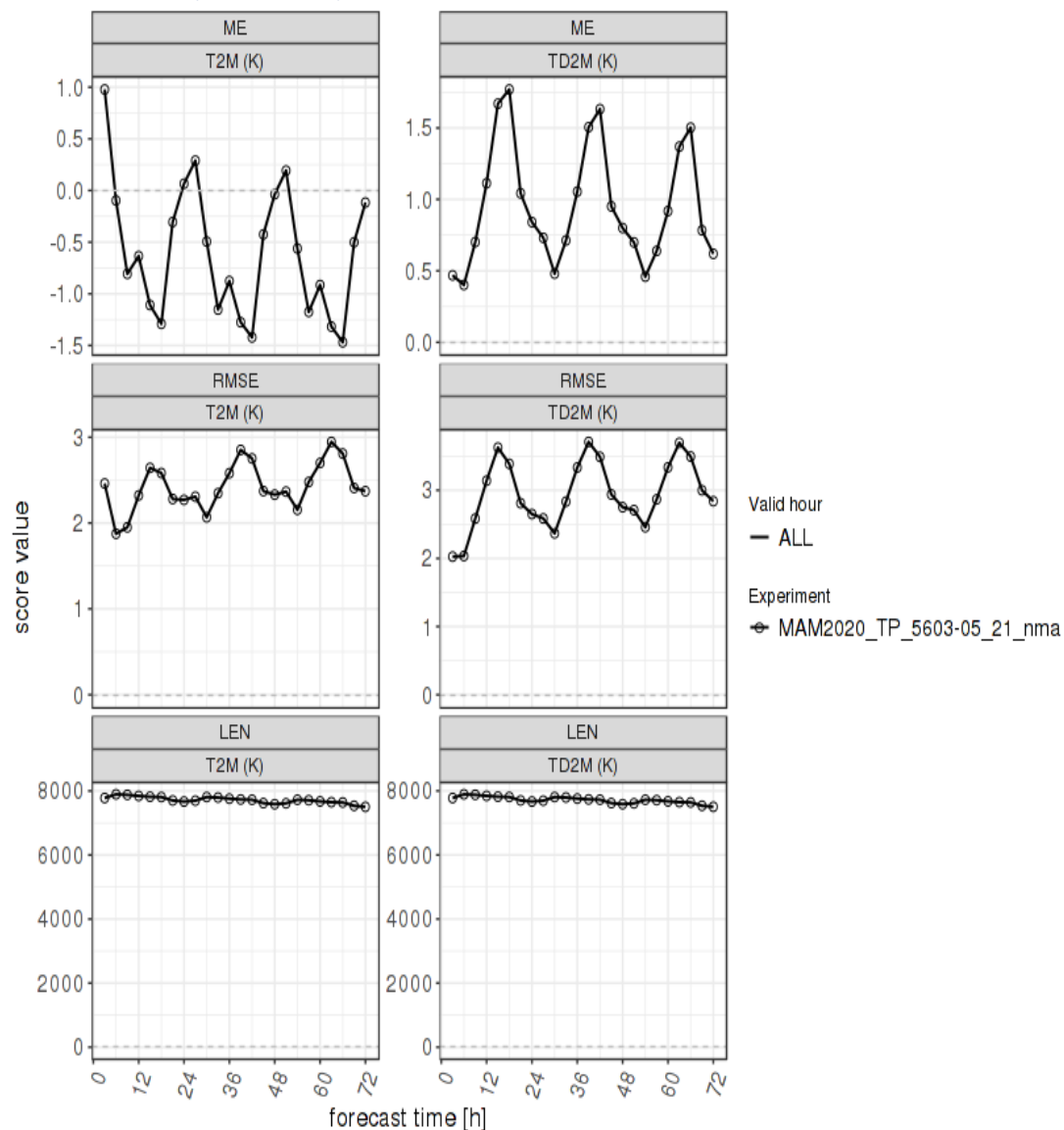
Stations list CA2
205 stations

Results – NMA: Integration Domain



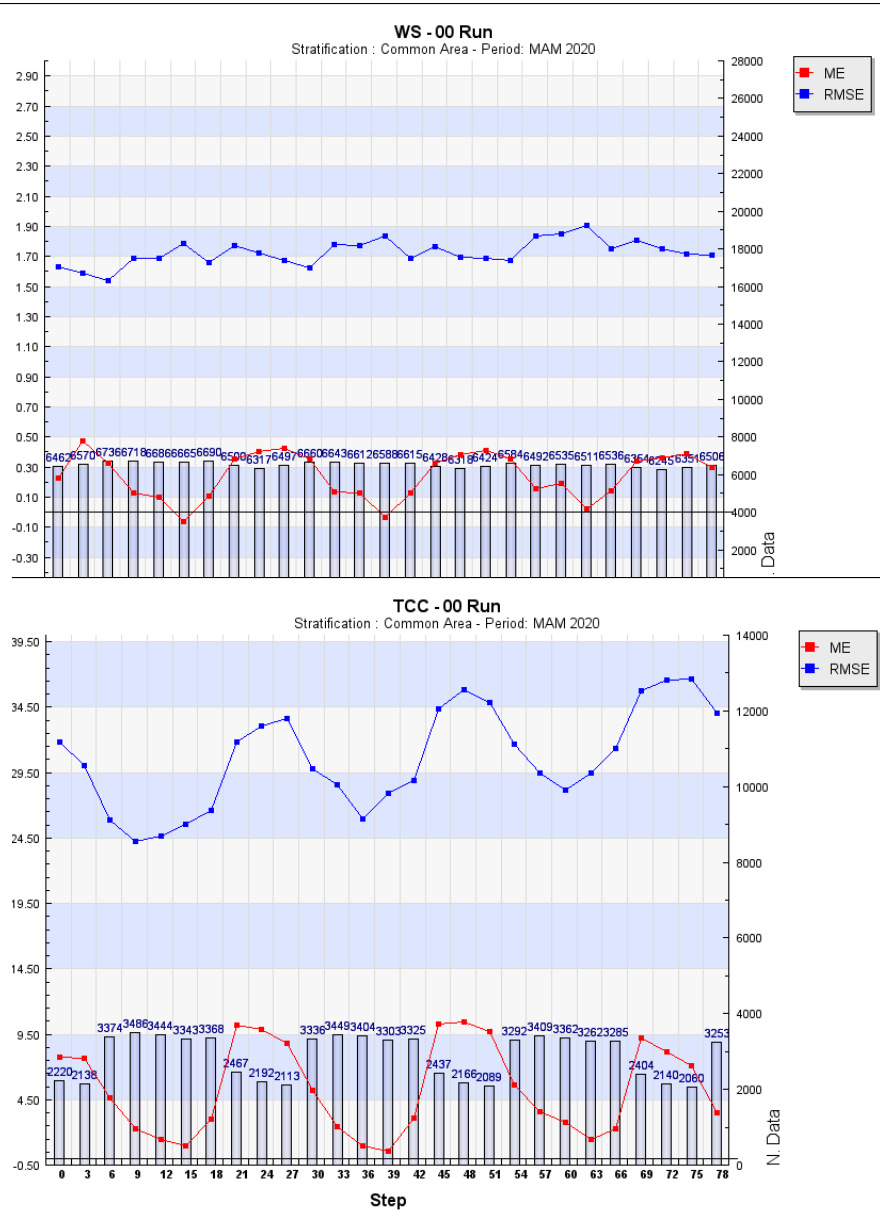
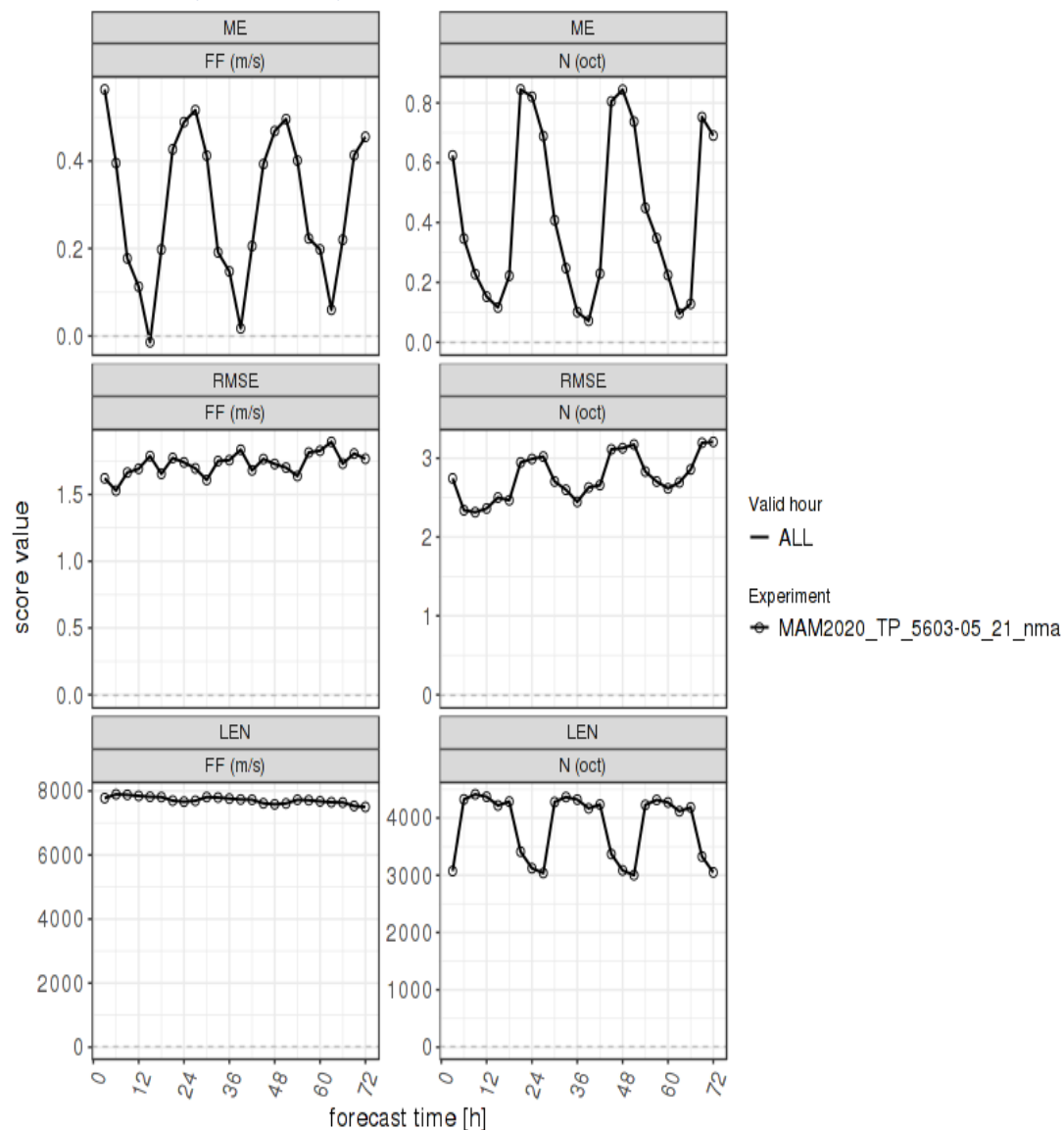
Results – NMA / Rfdbk vs. VERSUS

2020/03/01-03UTC - 2020/05/31-21UTC
INI: 00 UTC, DOM: CPSYN, STAT: ALL



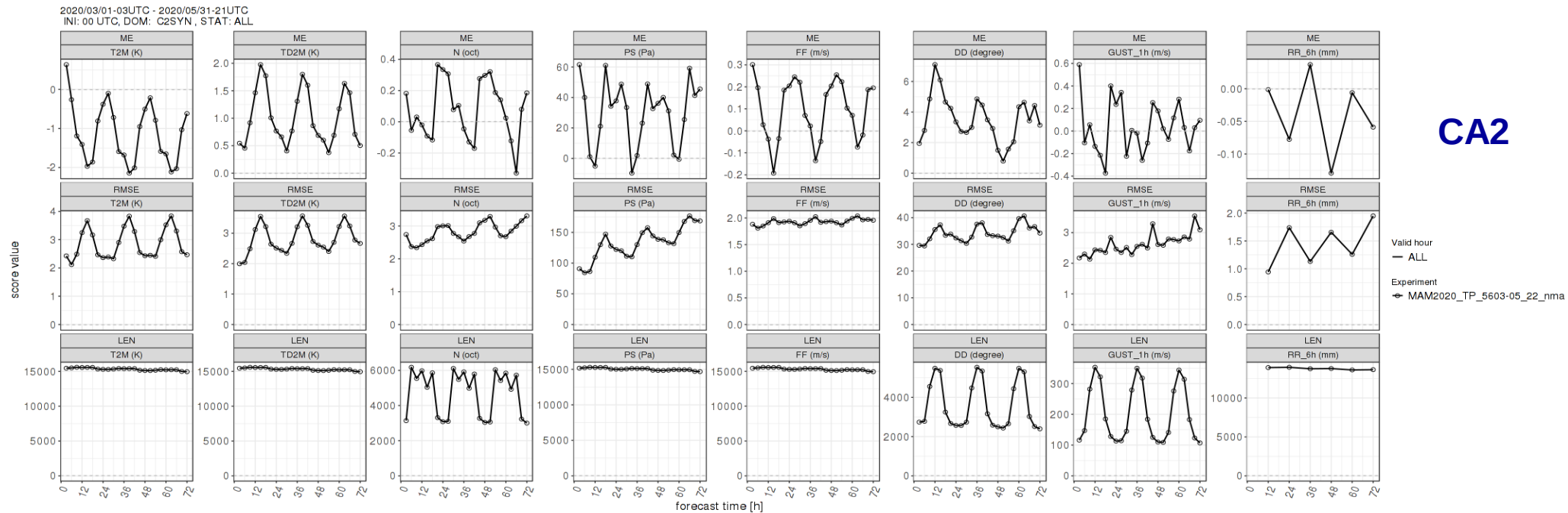
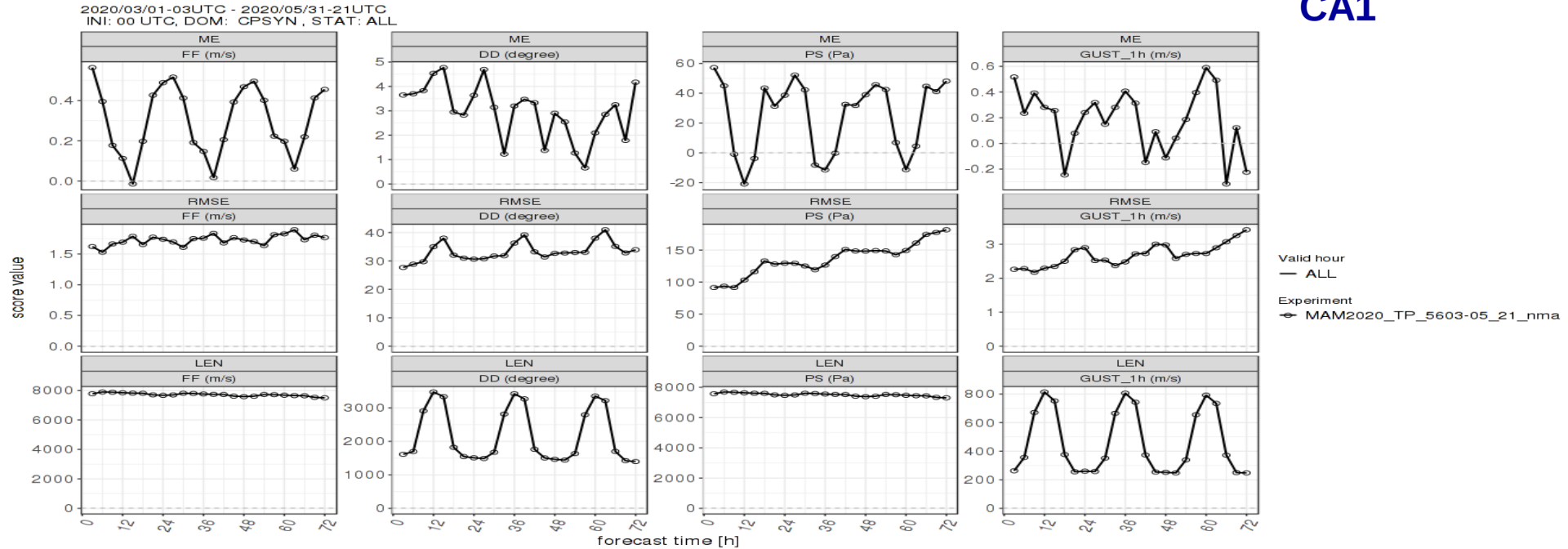
Results – NMA / Rfdbk vs. VERSUS

2020/03/01-03UTC - 2020/05/31-21UTC
INI: 00 UTC, DOM: CPSYN, STAT: ALL



Results – NMA / Rfdbk

CA1

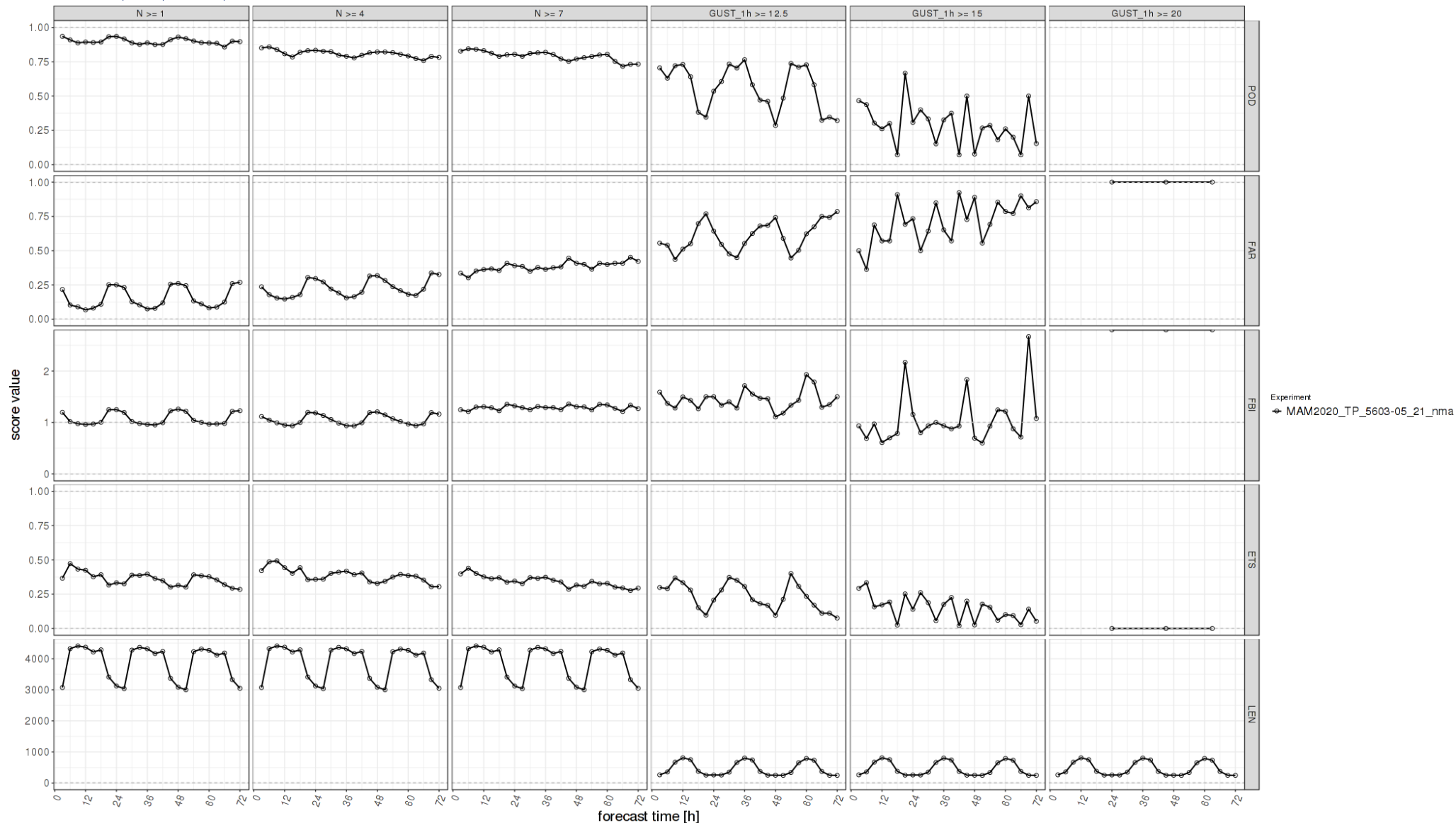


CA2

Results – NMA / Rfdbk

CA1 / Cloud cover / gust

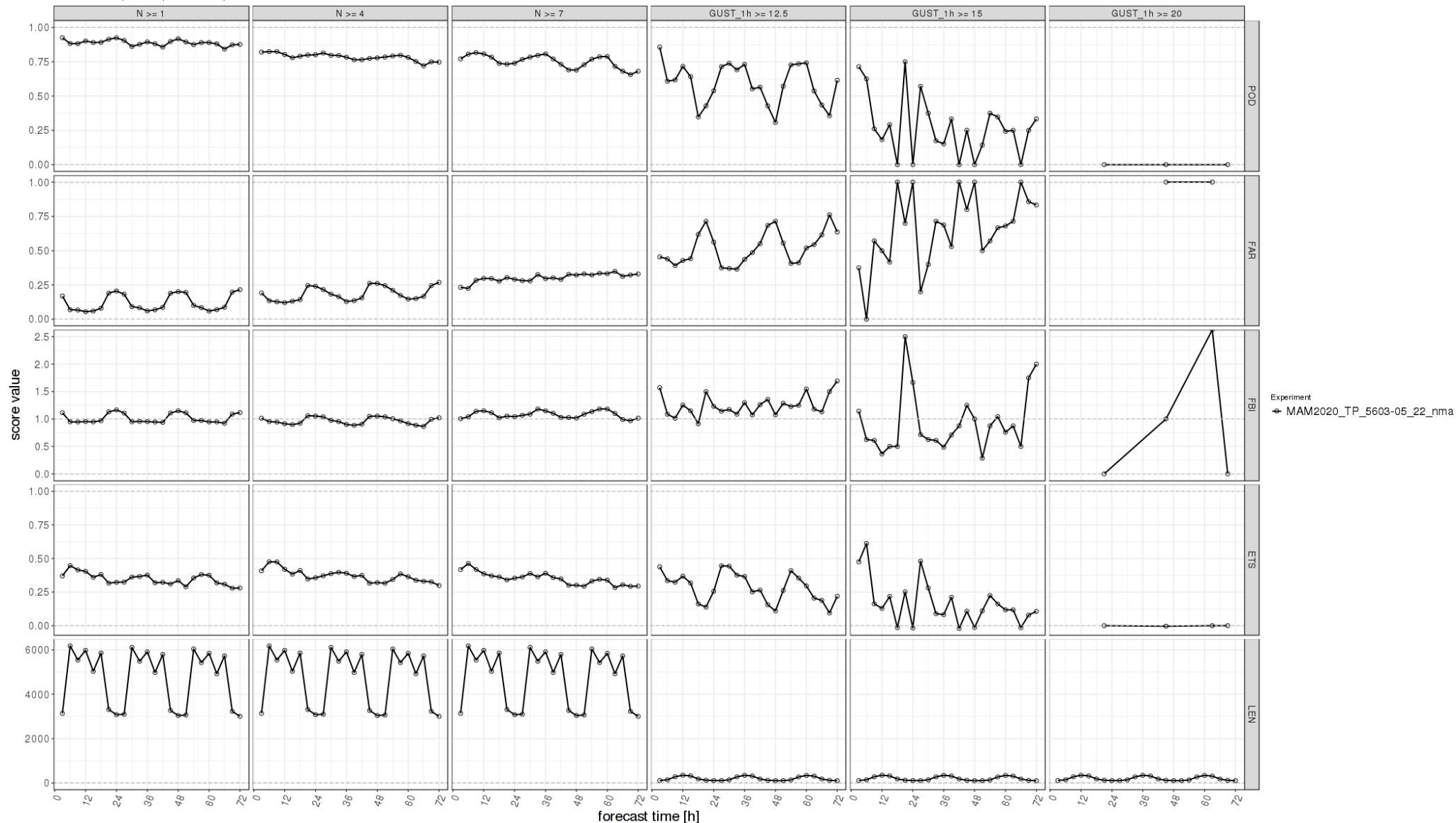
2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – NMA / Rfdbk

CA2 / Cloud cover / gust

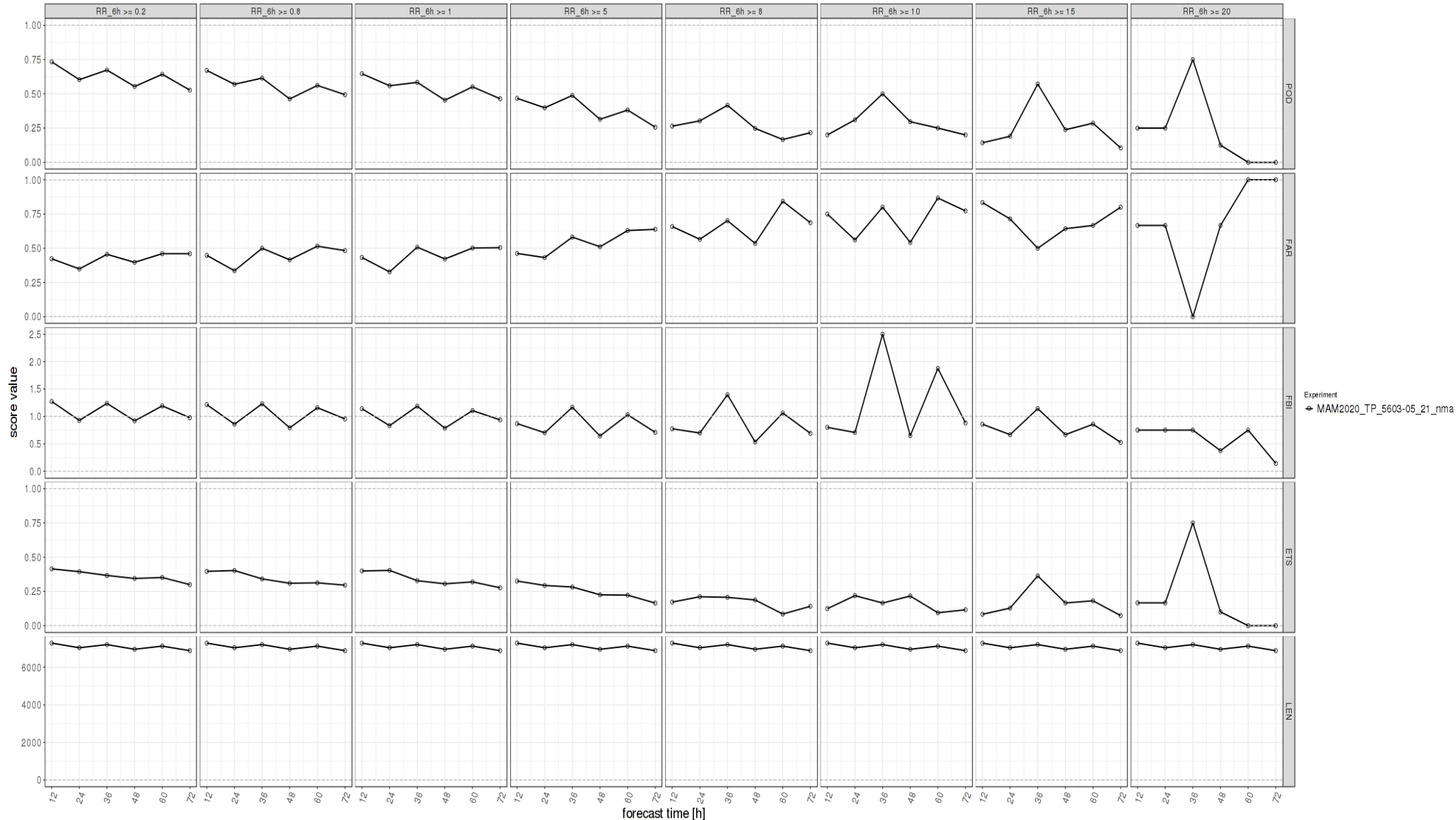
2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN



Results – NMA / Rfdbk

CA1 / Precipitation

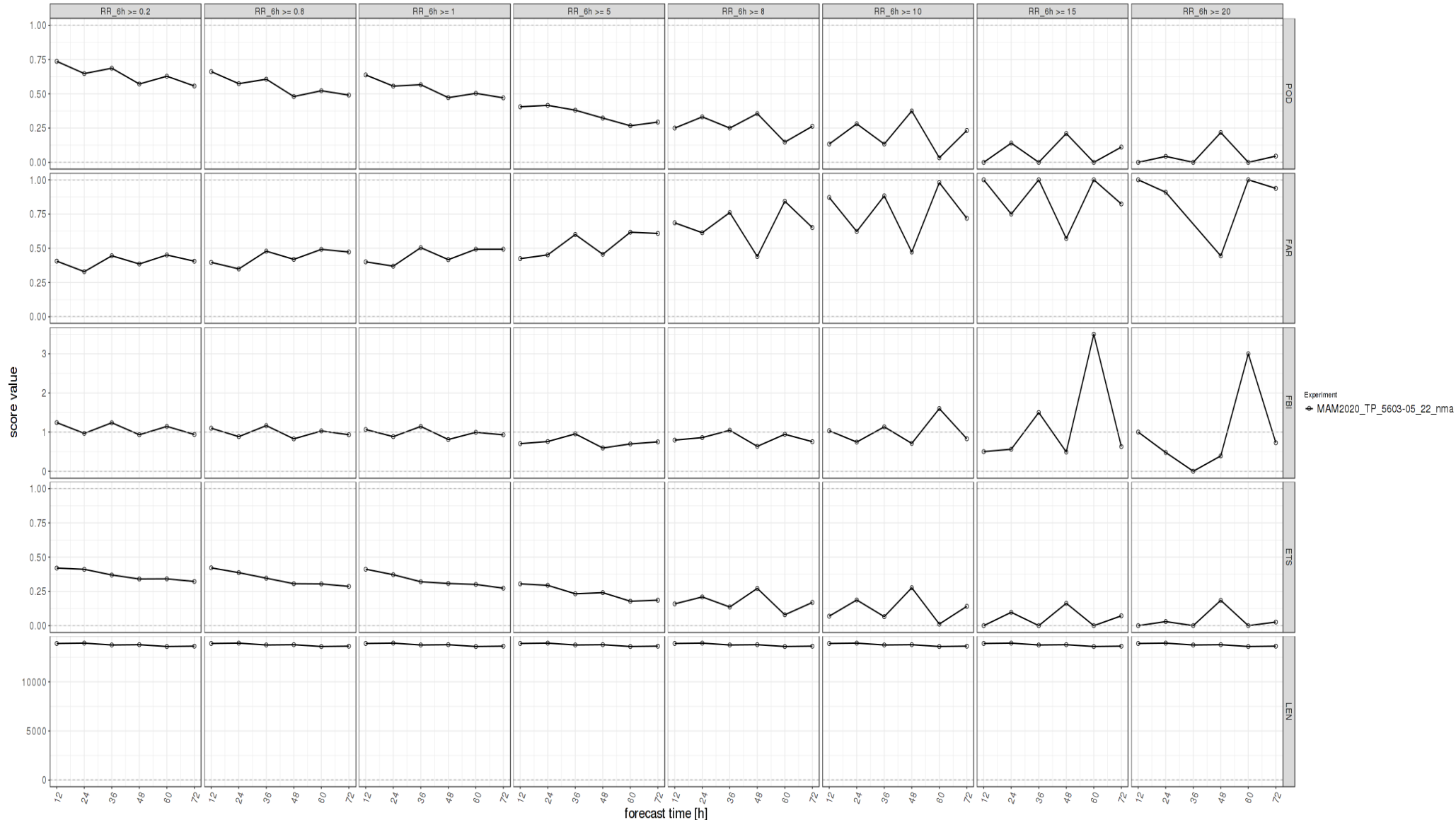
2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – NMA / Rfdbk

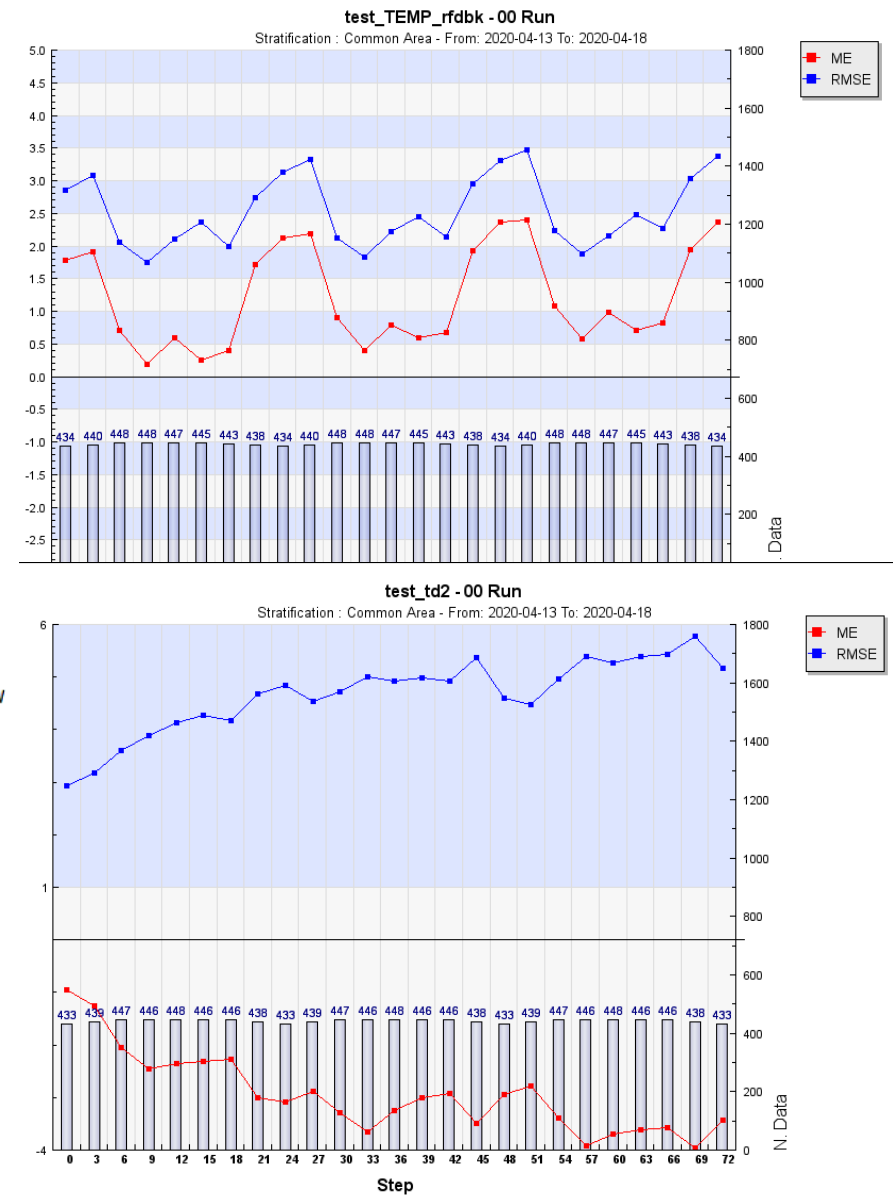
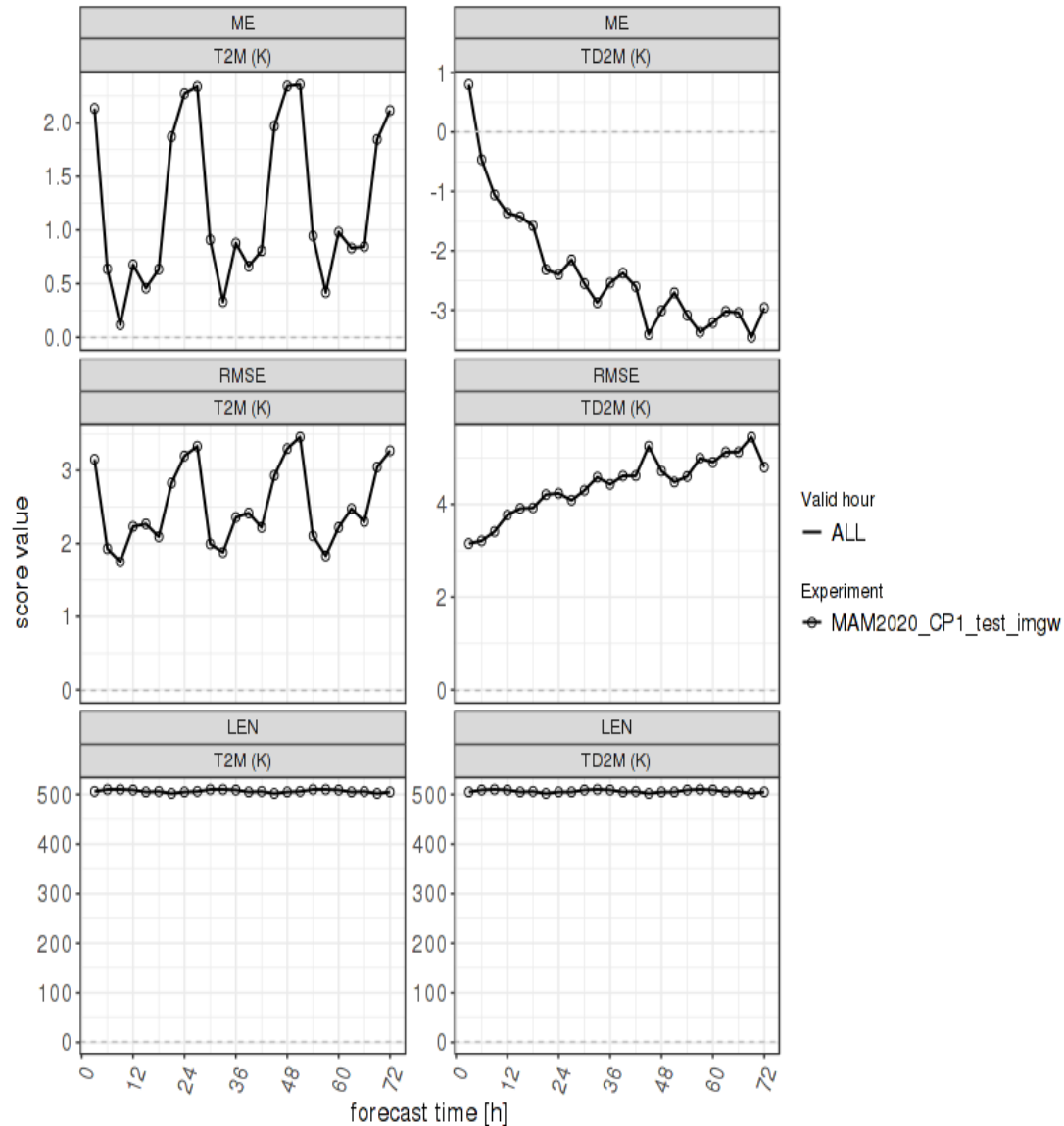
CA2 / Precipitation

2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN



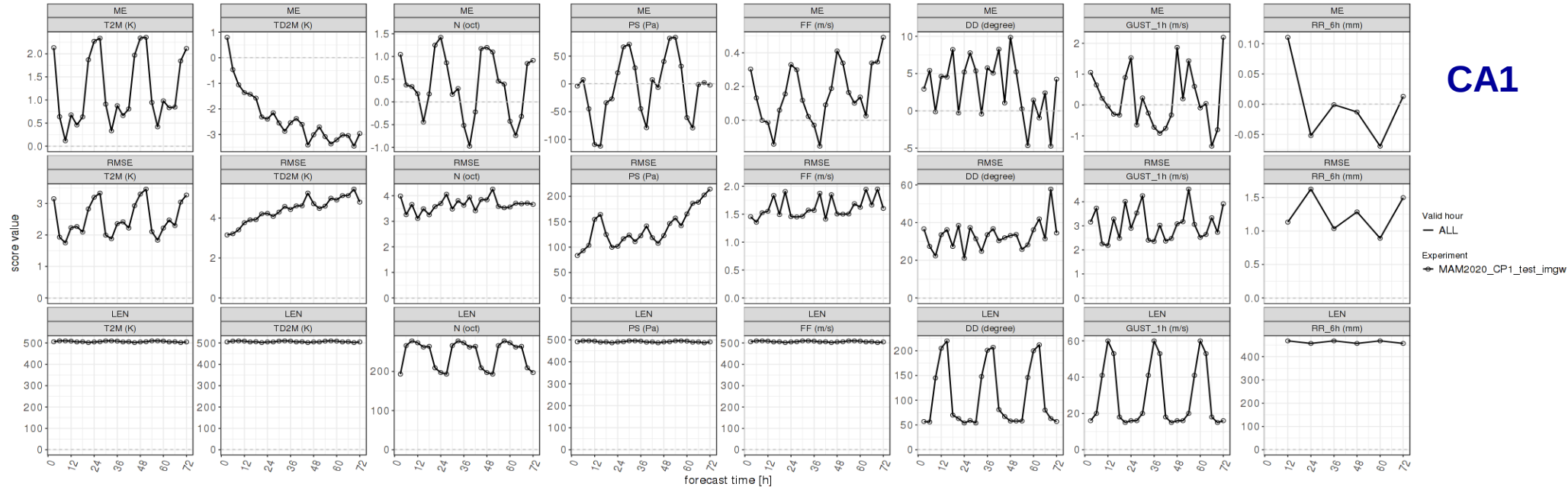
Results – IMGW / Rfdbk vs. VERSUS

2020/04/13-00UTC - 2020/04/18-21UTC
INI: 00 UTC, DOM: CPSYN, STAT: ALL

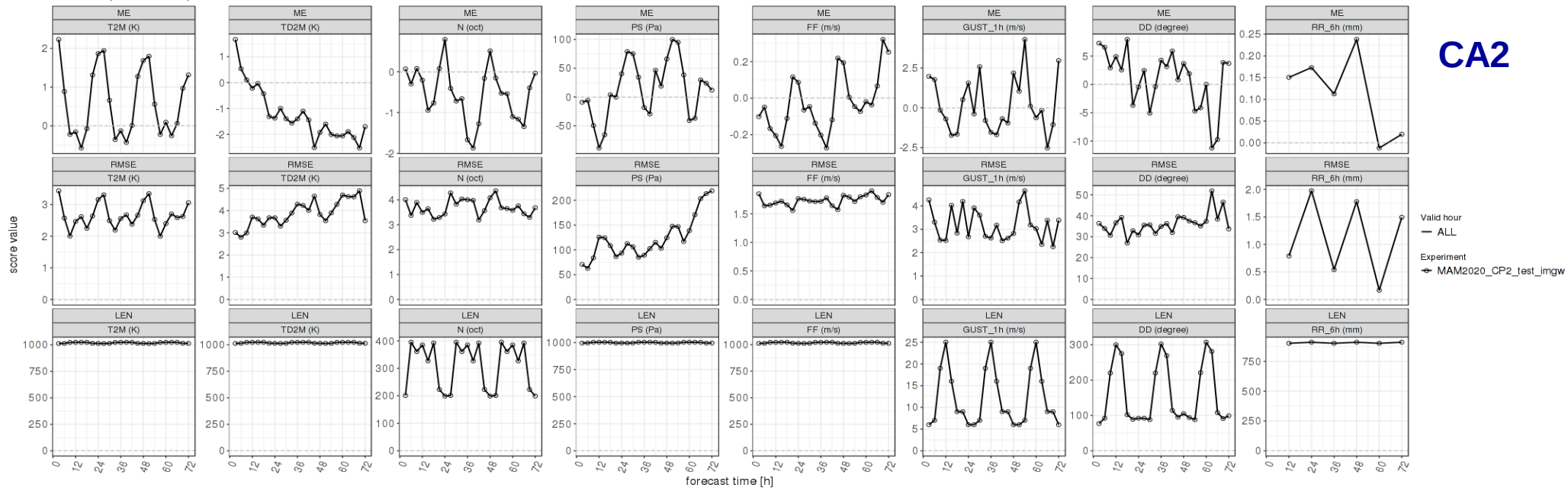


Results – IMGW / Rfdbk

2020/04/13-00UTC - 2020/04/18-21UTC
INI: 00 UTC, DOM: CPSYN, STAT: ALL



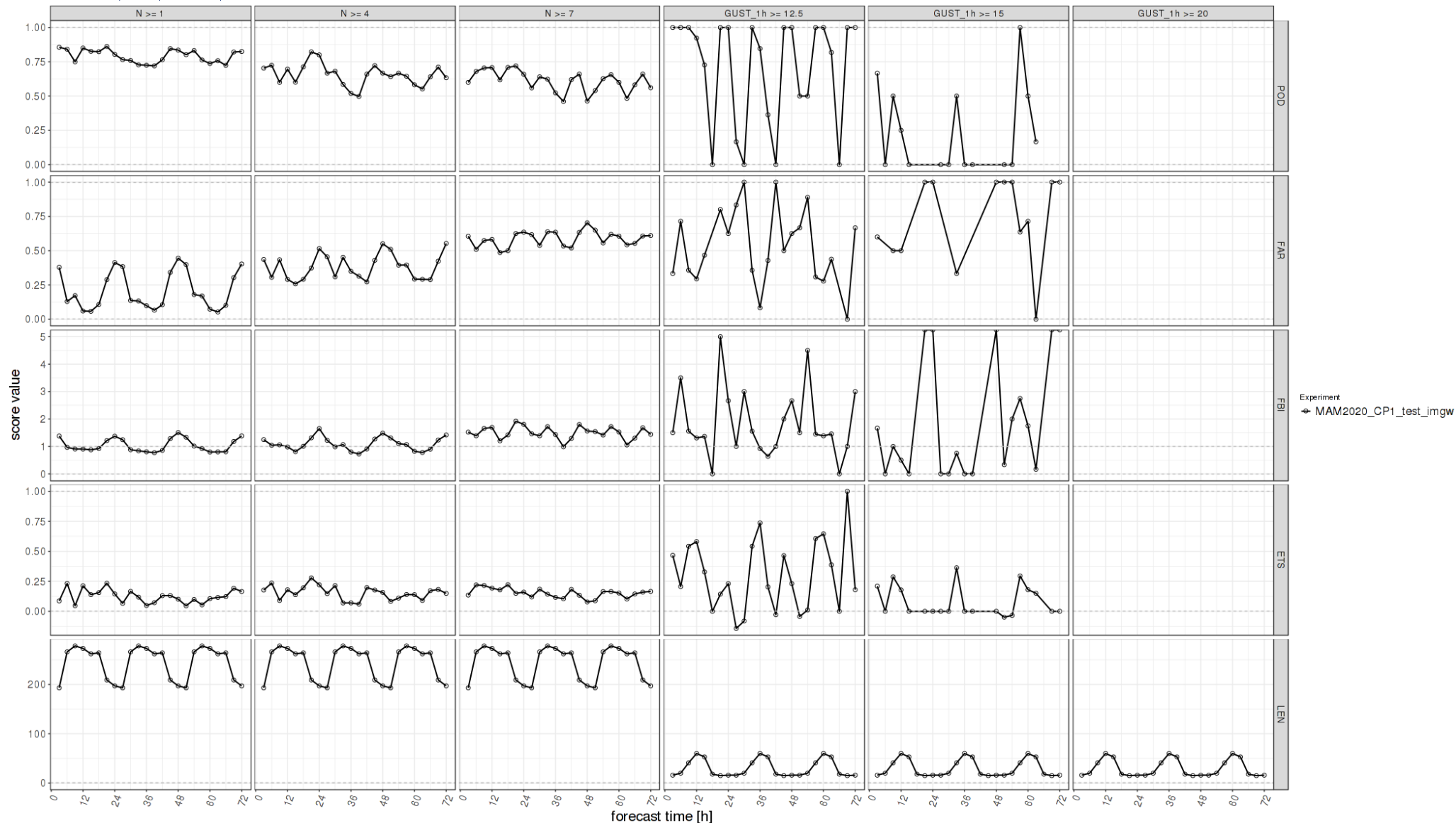
2020/04/13-00UTC - 2020/04/18-21UTC
INI: 00 UTC, DOM: C2SYN, STAT: ALL



Results – IMGW / Rfdbk

CA1 / Cloud cover / gust

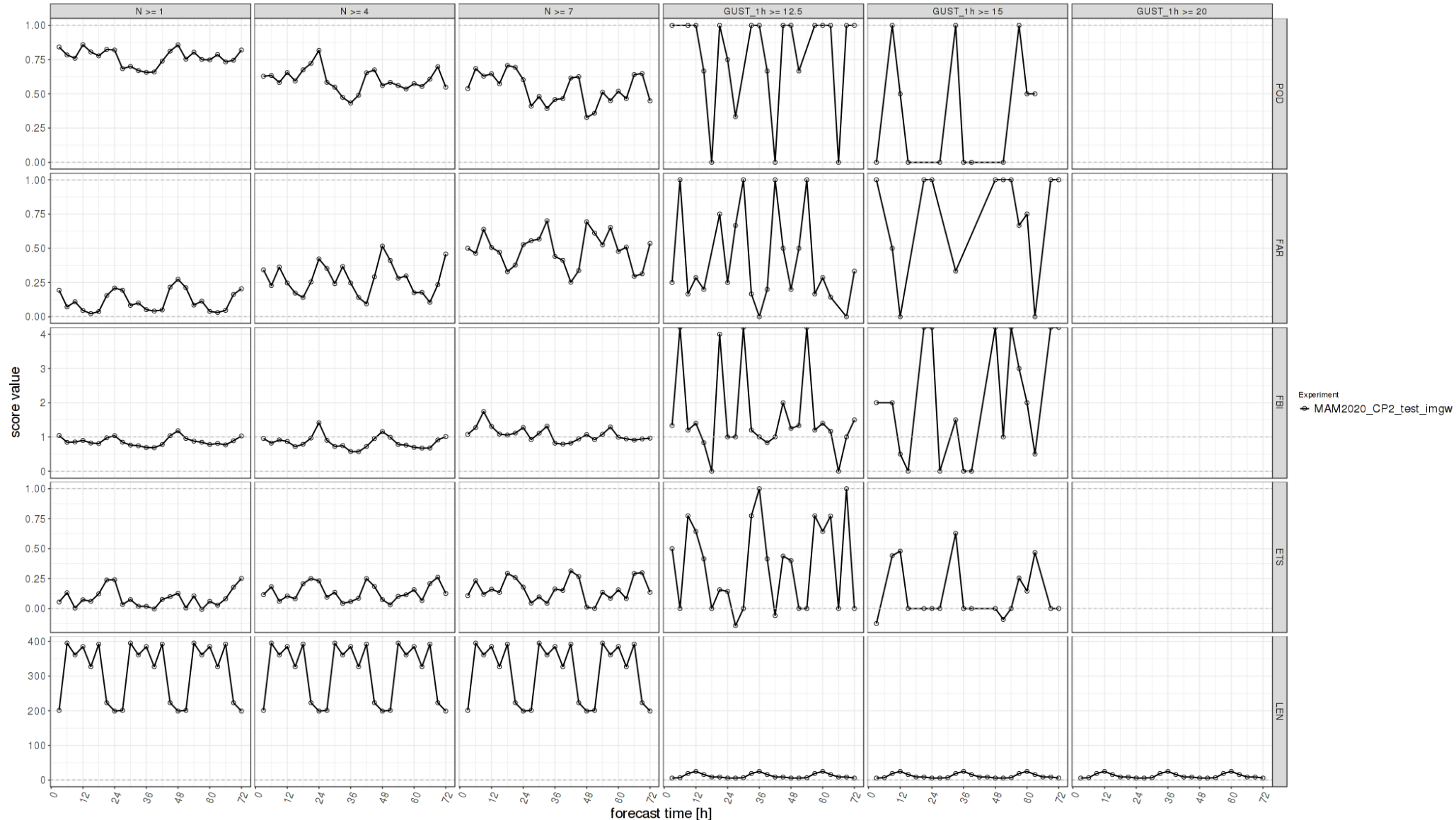
2020.04.13-00UTC - 2020.04.18-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – IMGW / Rfdbk

CA2 / Cloud cover / gust

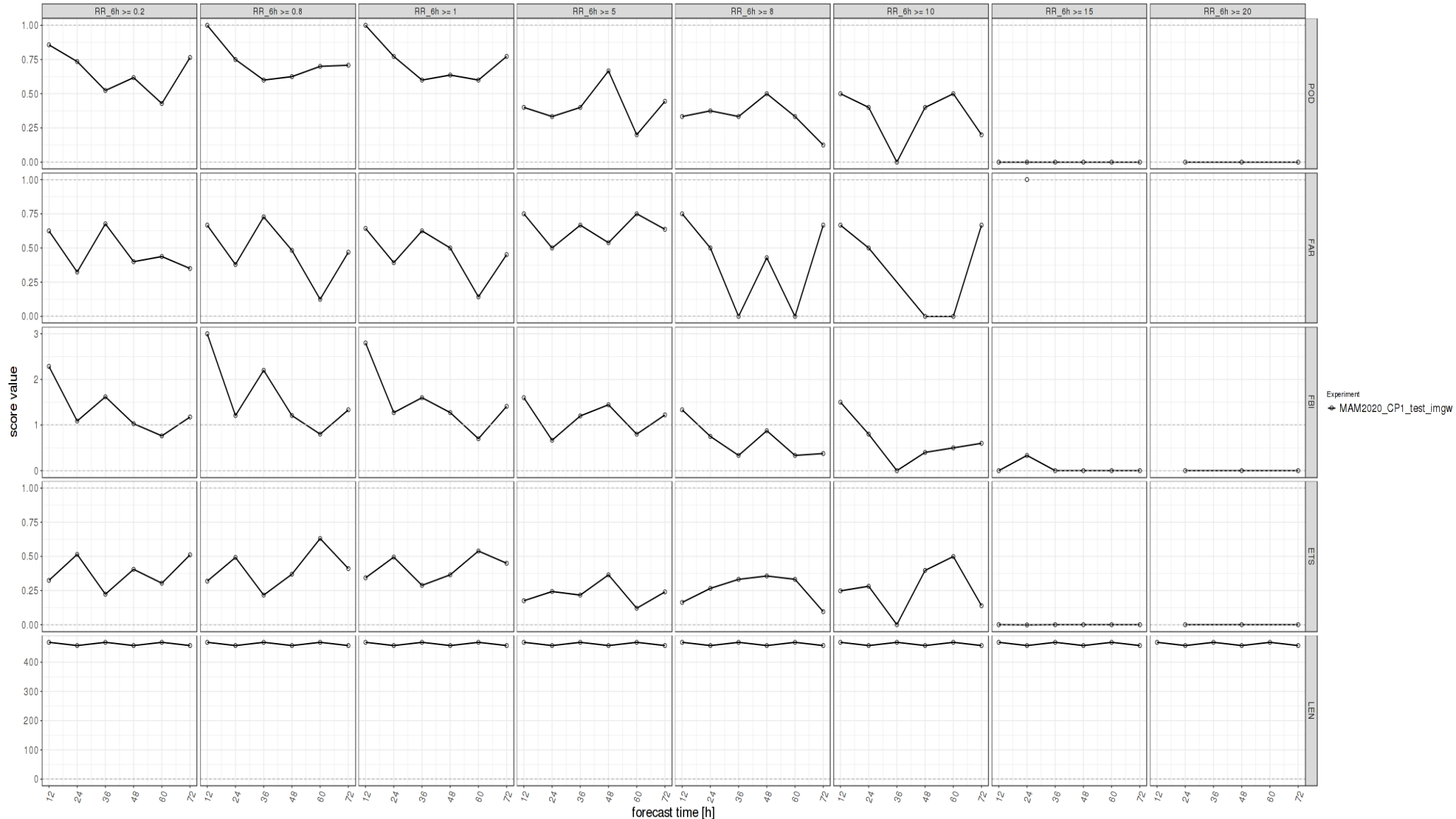
2020.04.13-00UTC - 2020.04.18-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN



Results – IMGW / Rfdbk

CA1 / Precipitation

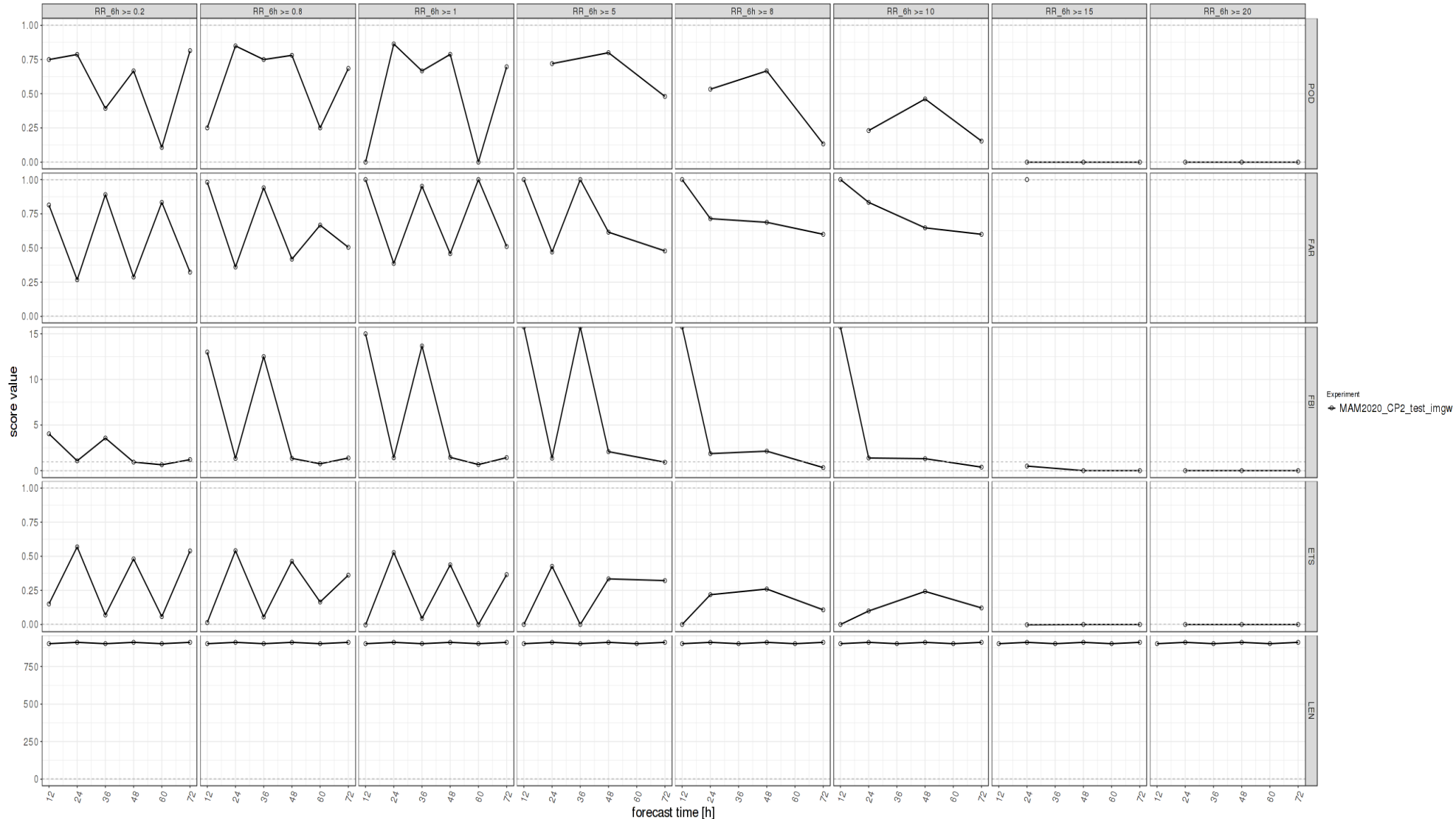
2020.04.13-00UTC - 2020.04.18-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – IMGW / Rfdbk

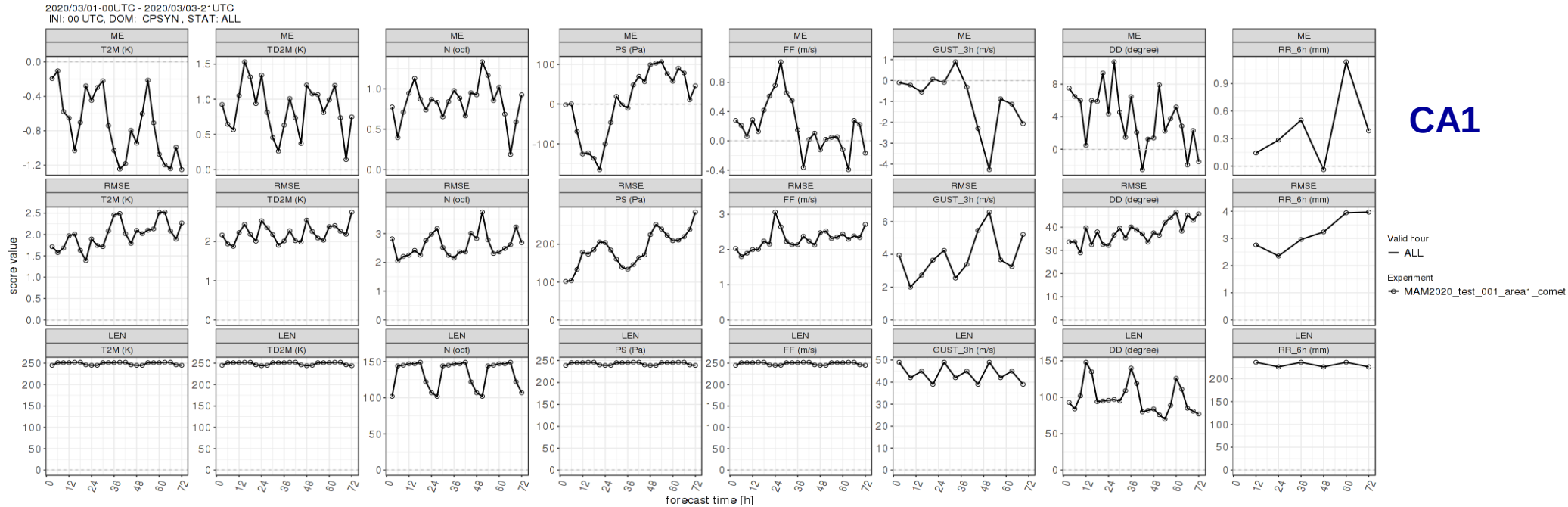
CA2 / Precipitation

2020.04.13-00UTC - 2020.04.18-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN

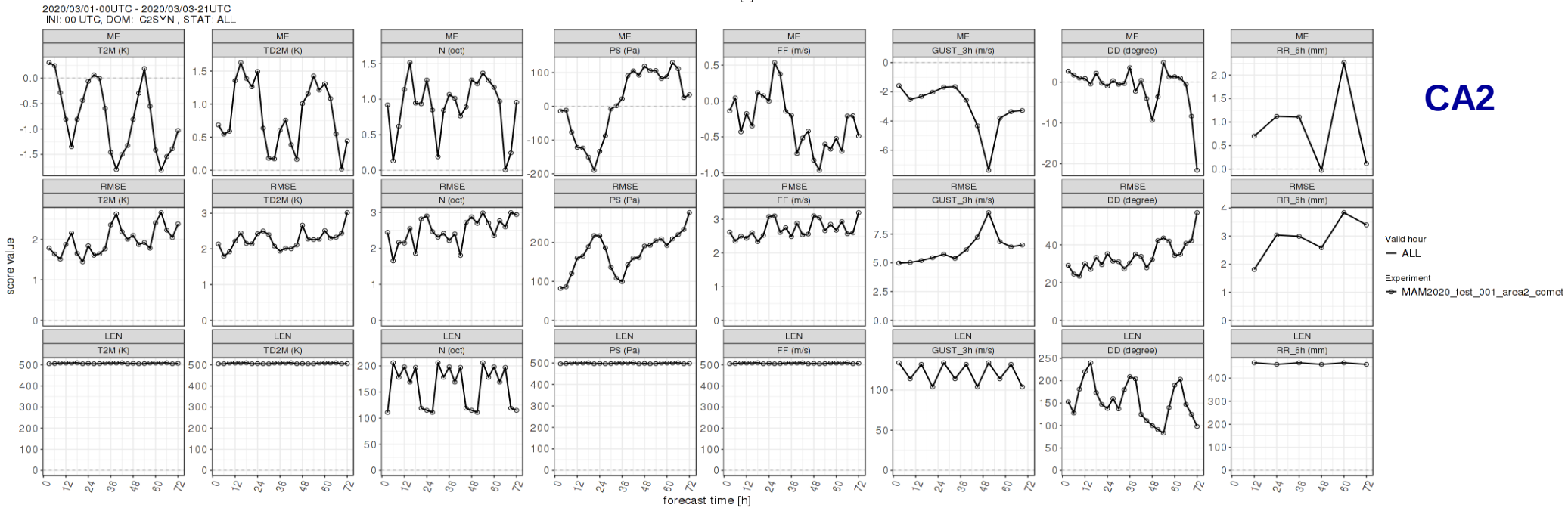


Results – COMET (test Rfdbk)

CA1



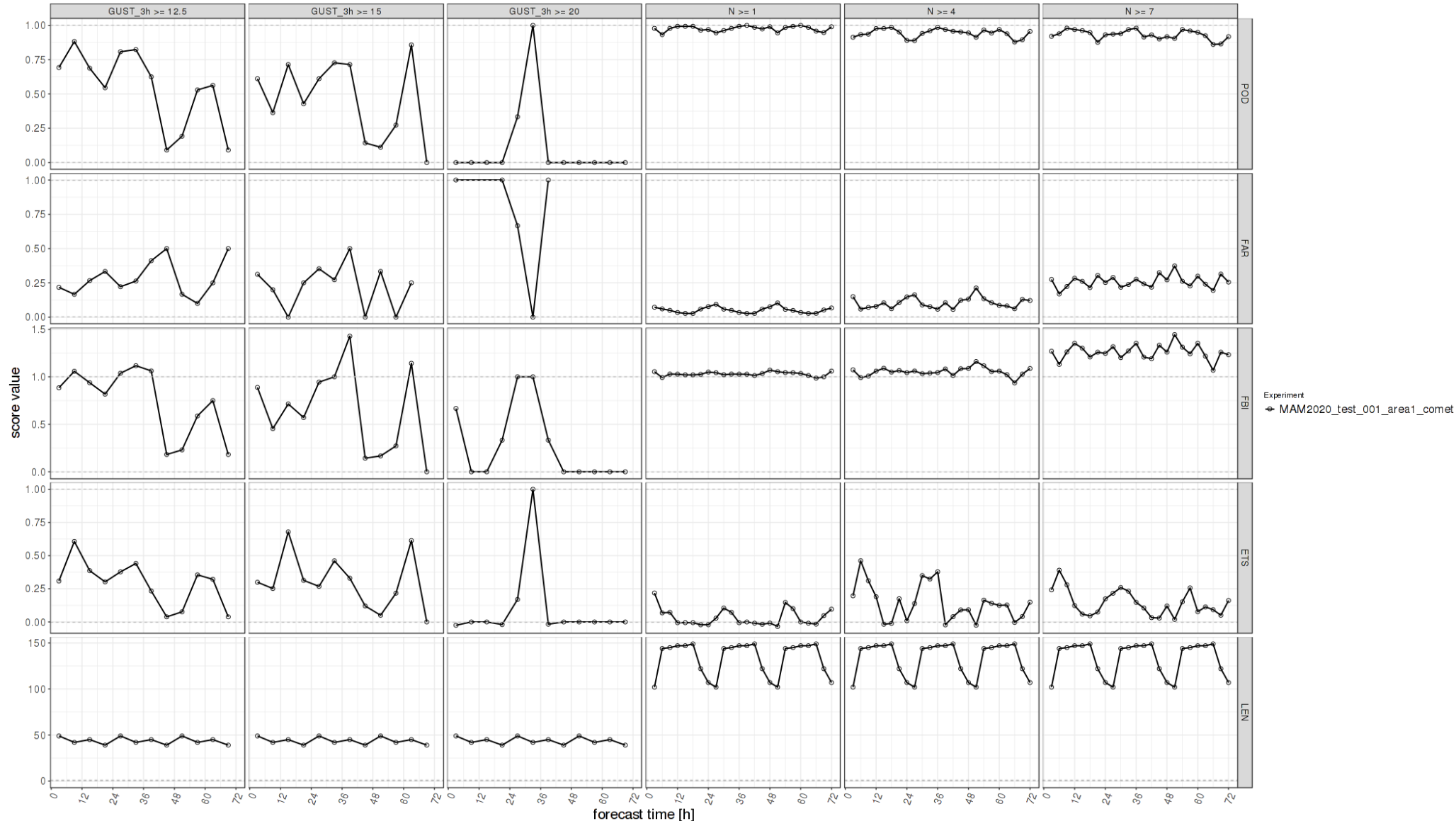
CA2



Results – COMET / Rfdbk

CA1 / Cloud cover / gust

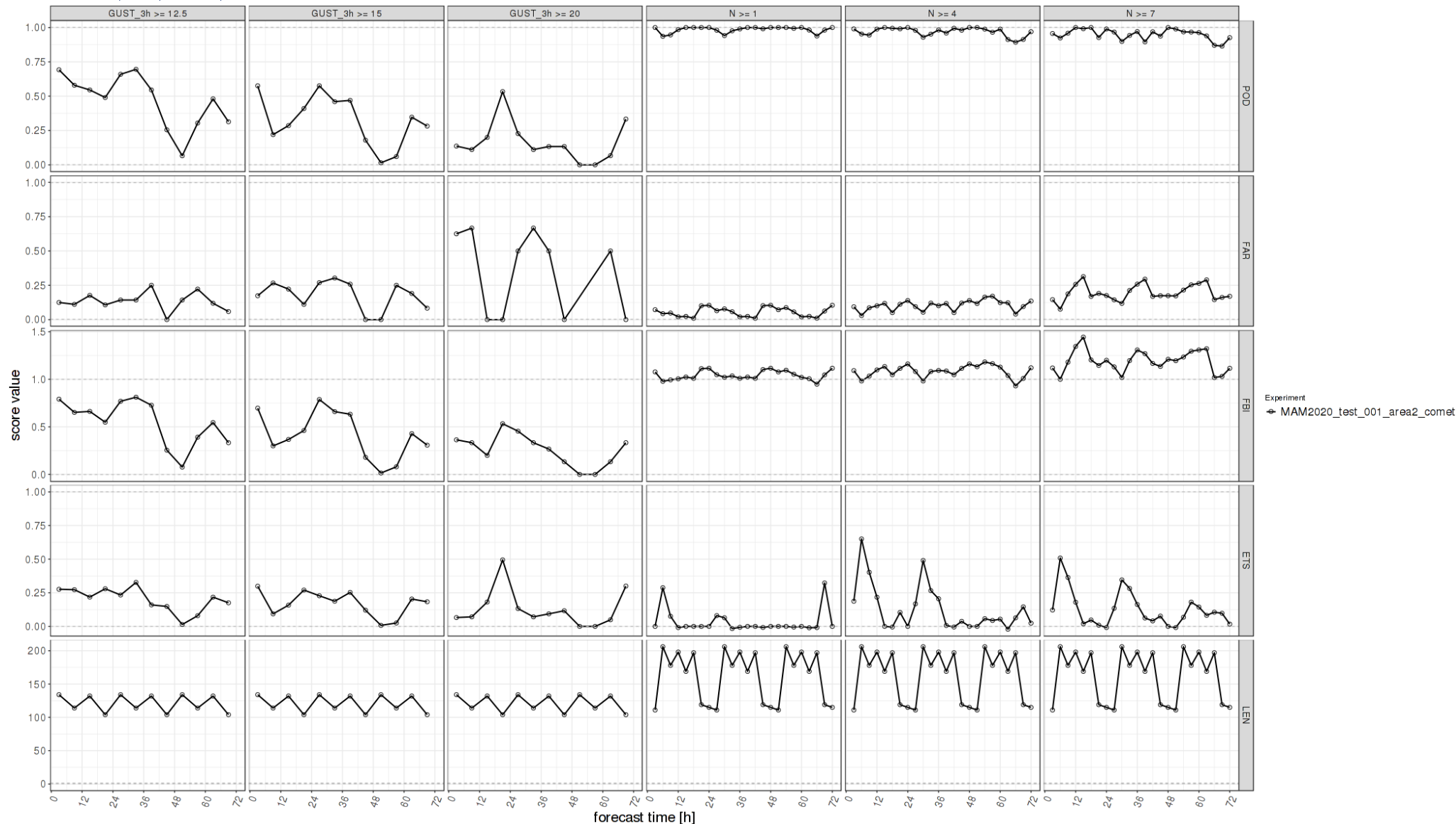
2020.03.01-00UTC - 2020.03.21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – COMET / Rfdbk

CA2 / Cloud cover / gust

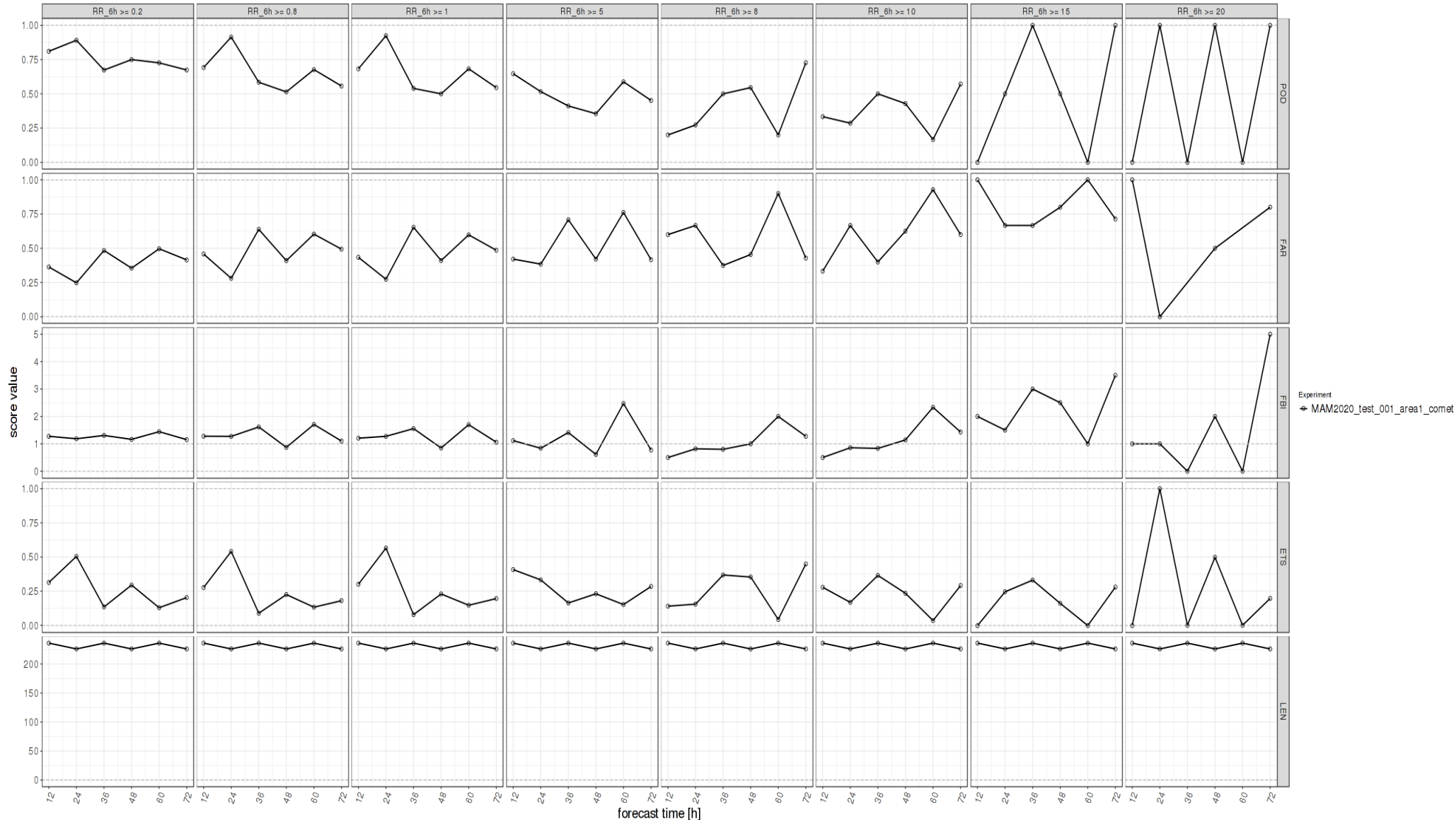
2020.03.01-00UTC - 2020.03.03-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN



Results – COMET / Rfdbk

CA1 / Precipitation

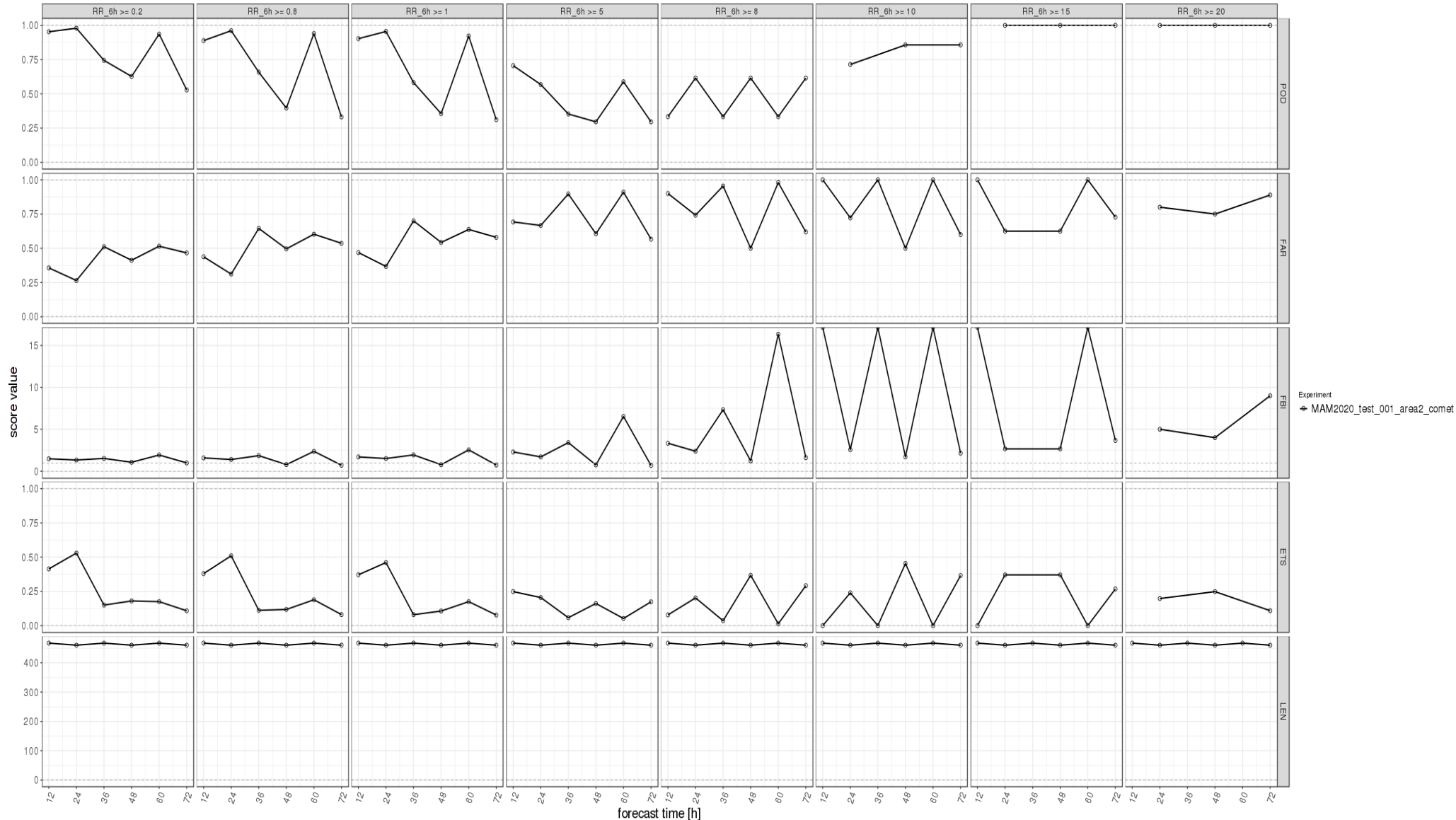
2020.03.01-00UTC - 2020.03.03-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – COMET / Rfdbk

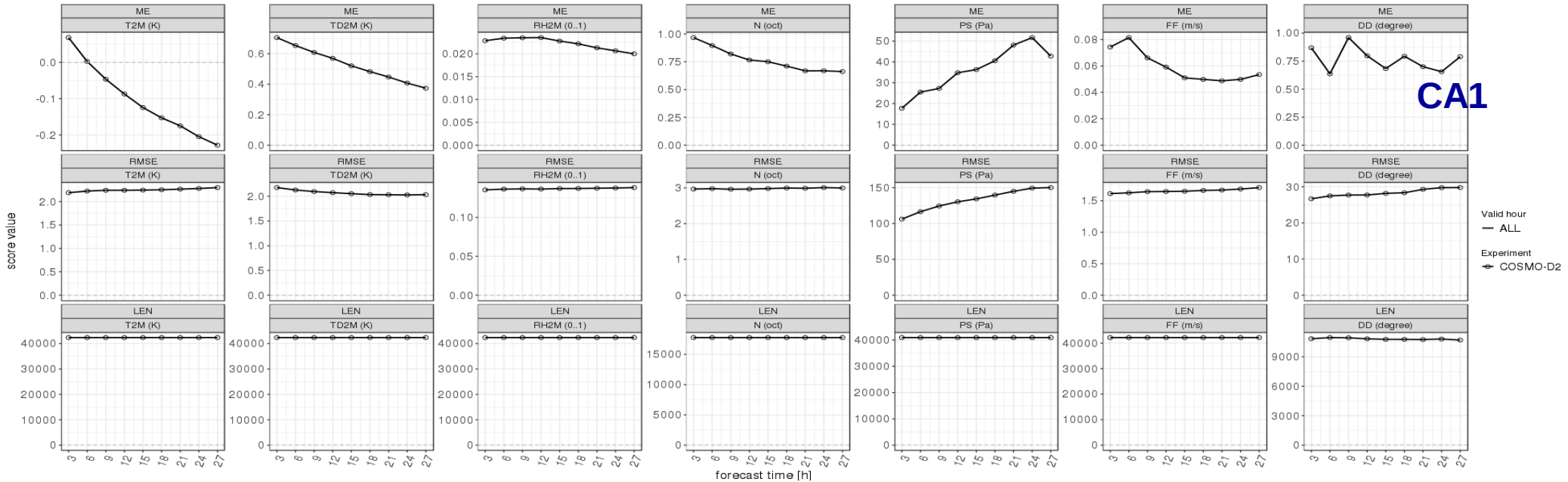
CA2 / Precipitation

2020.03.01-00UTC - 2020.03.21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN

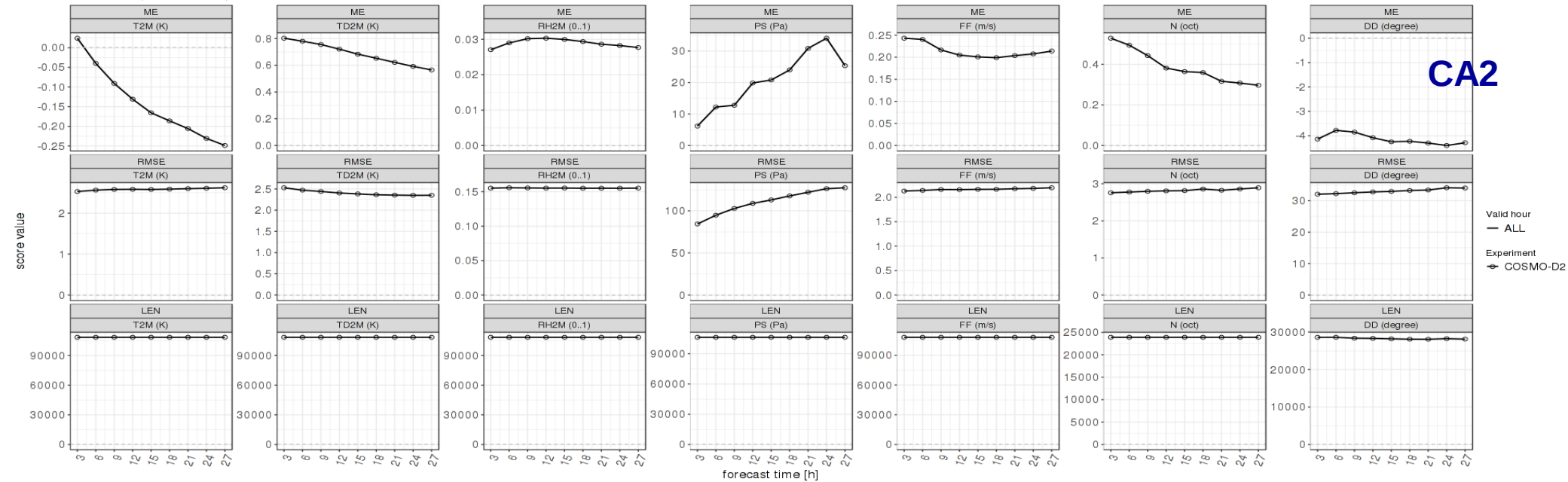


Results – DWD / Rfdbk

2019/12/01-00UTC - 2020/02/29-21UTC
INI: ALL UTC, DOM: CPSYN, STAT: ALL



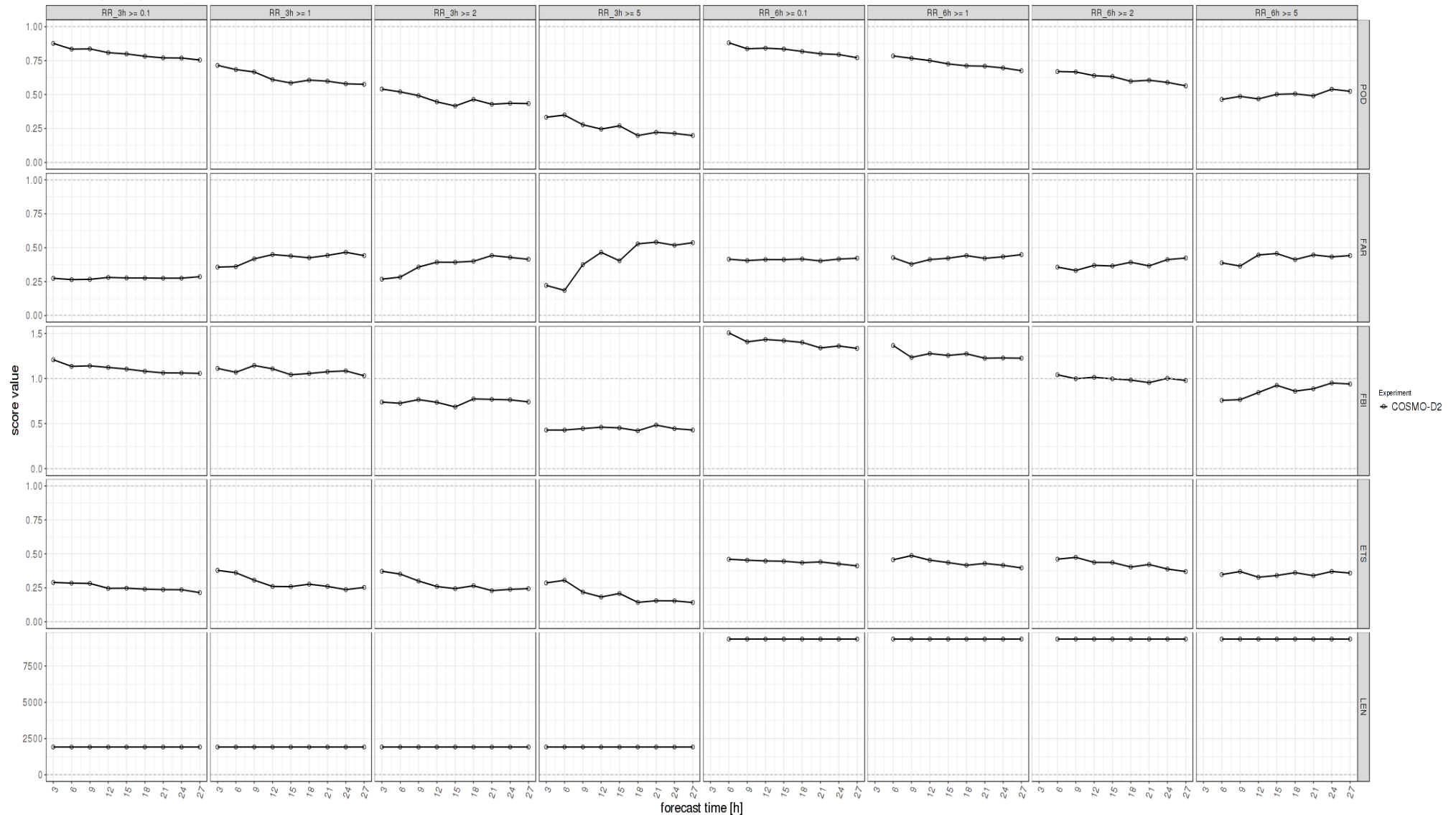
2019/12/01-00UTC - 2020/02/29-21UTC
INI: ALL UTC, DOM: C2SYN, STAT: ALL



Results – DWD / Rfdbk

CA1 / Precipitation

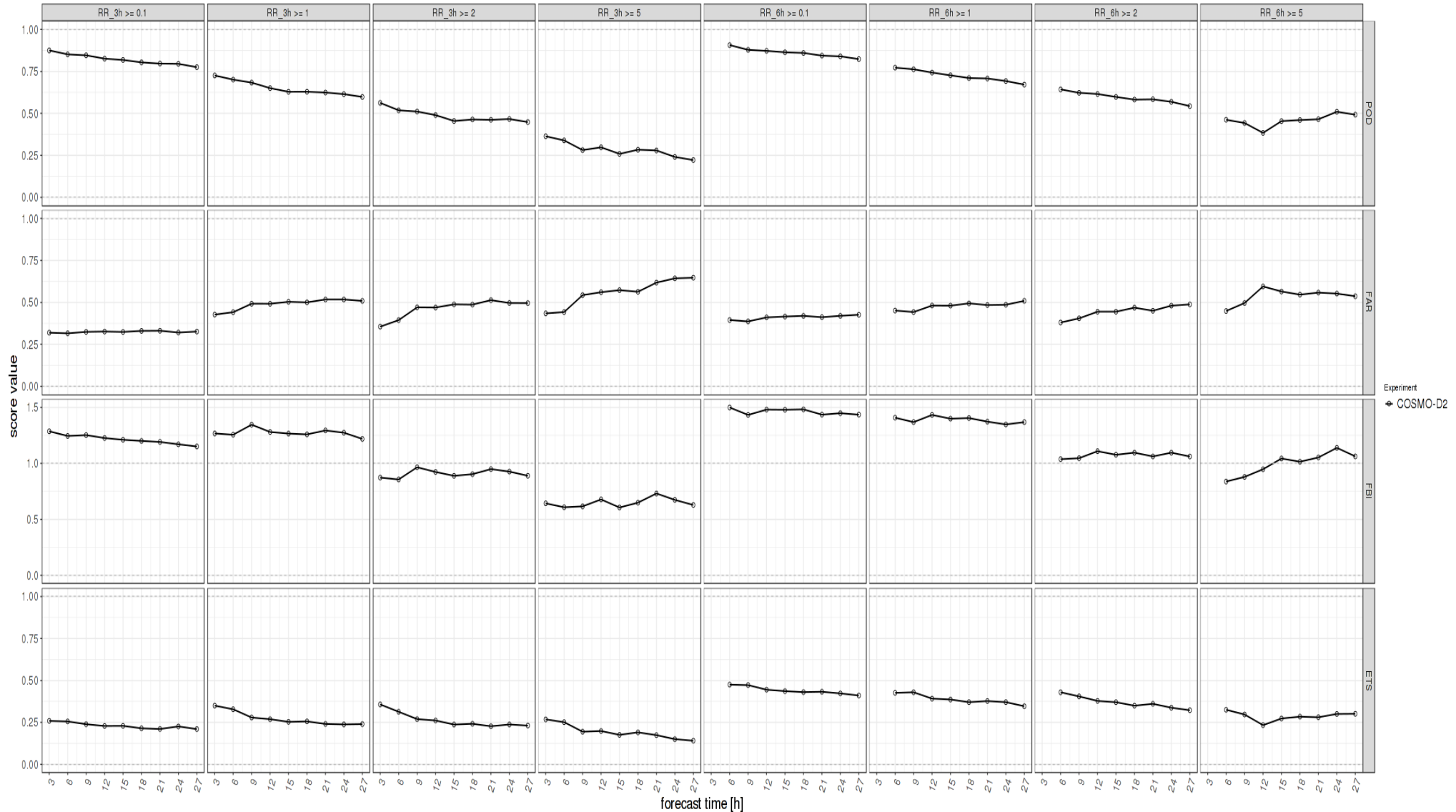
2019.12.01-00UTC - 2020.02.29-21UTC
VAL: ALL UTC, INI: ALL, STAT: ALL, DOM: CPSYN



Results – DWD / Rfdbk

CA2 / Precipitation

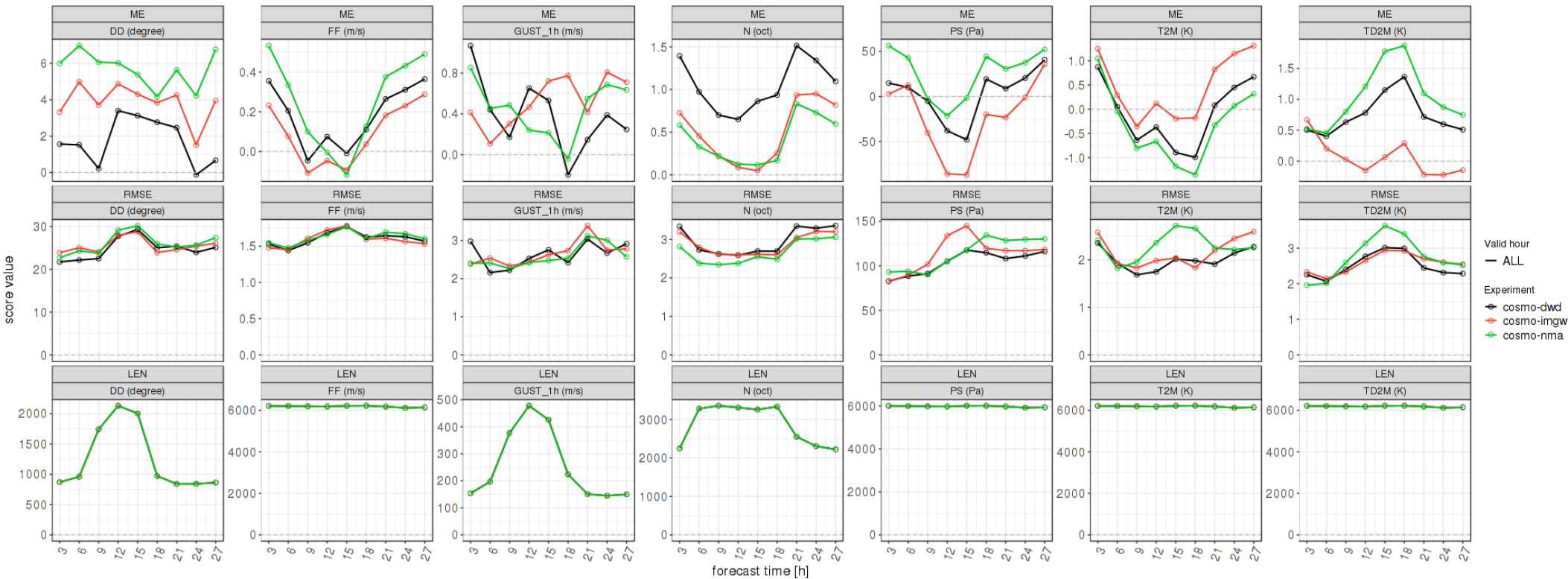
2019.12.01-00UTC - 2020.02.29-21UTC
VAL: ALL UTC, INI: ALL, STAT: ALL, DOM: C2SYN



Results – CP (Intermediary)

CA1

2020/03/01-03UTC - 2020/05/31-21UTC
INI: 00 UTC, DOM: CPSYN, STAT: ALL

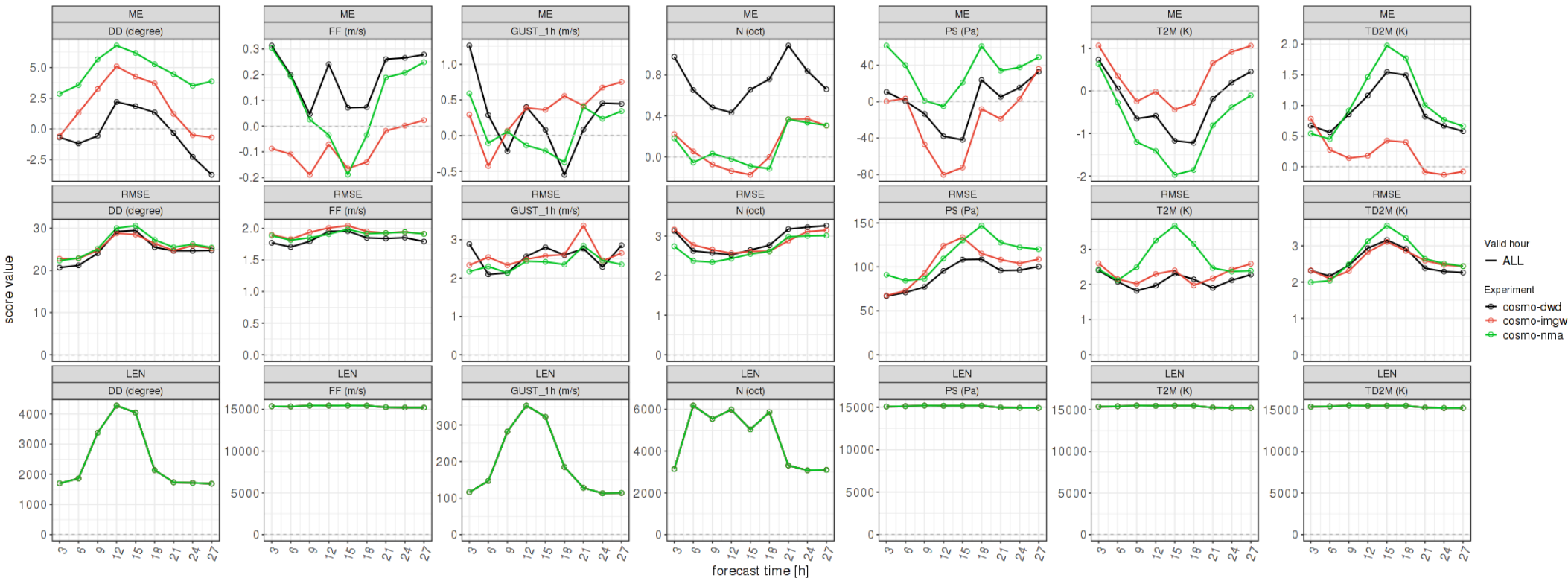


DWD / IMGW / NMA

Results – CP (Intermediary)

CA2

2020/03/01-03UTC - 2020/05/31-21UTC
INI: 00 UTC, DOM: C2SYN, STAT: ALL

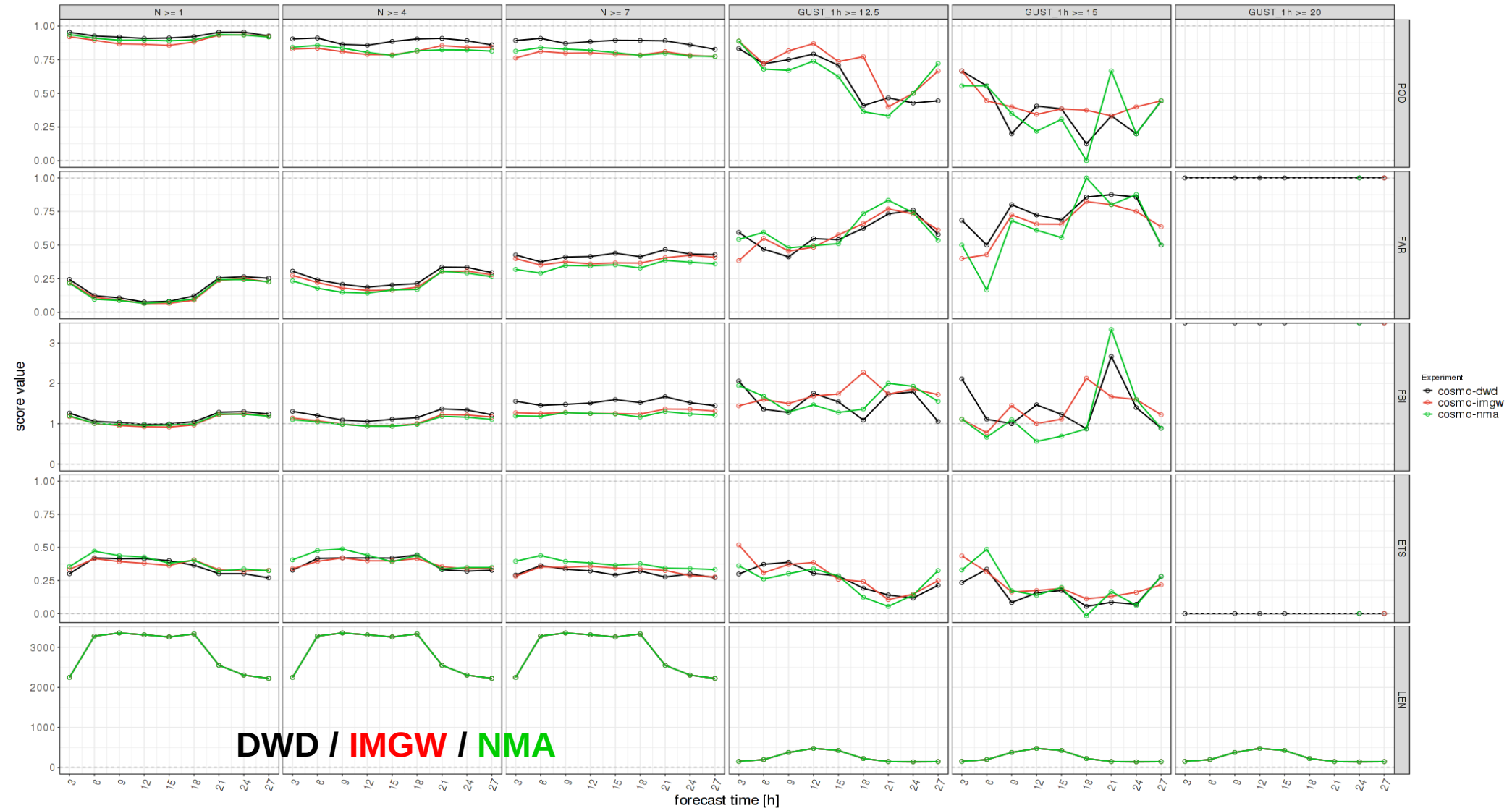


DWD / IMGW / NMA

Results – CP (Intermediary)

CA1 / Cloud cover / gust

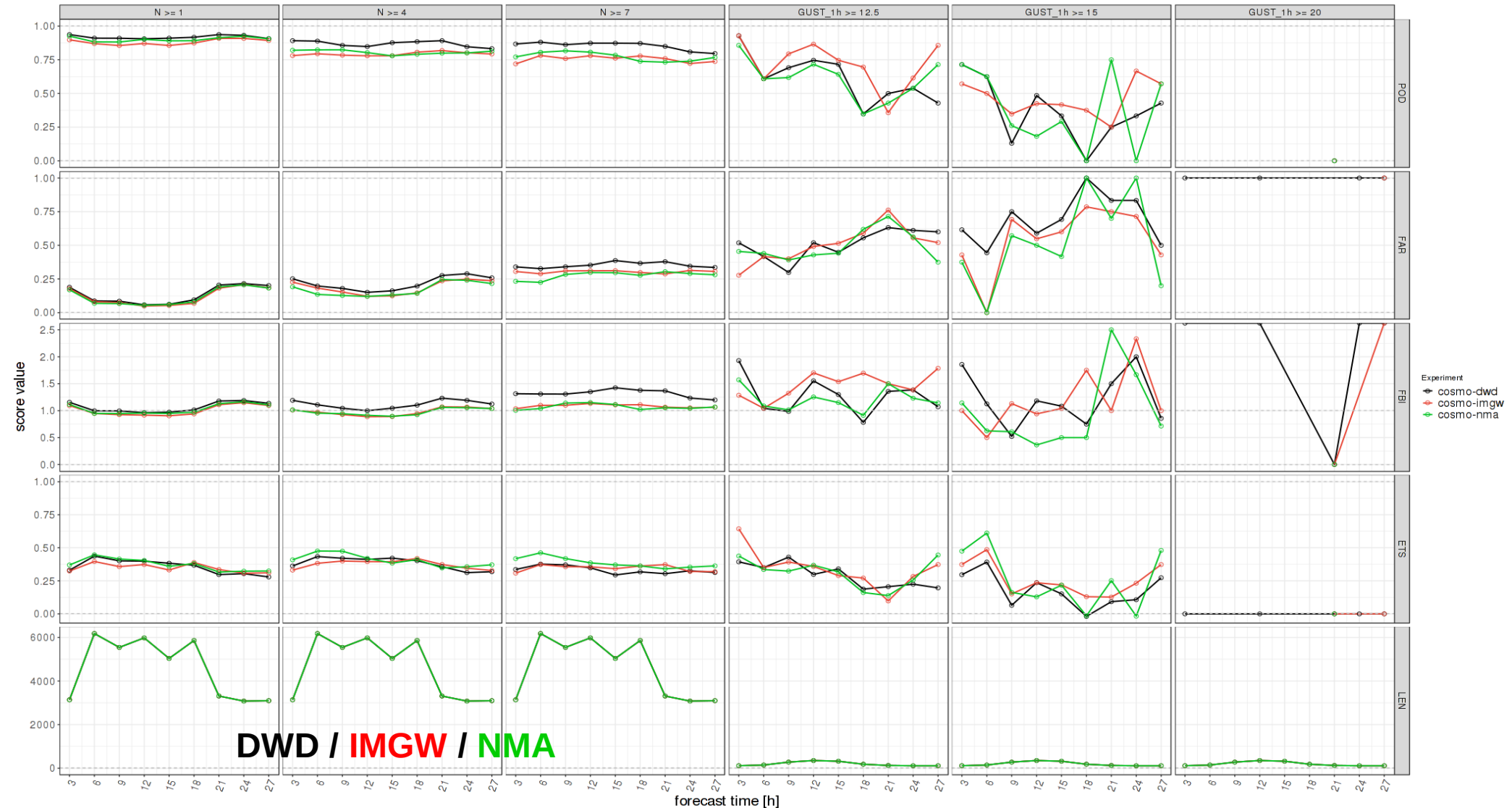
2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – CP (Intermediary)

CA2 / Cloud cover / gust

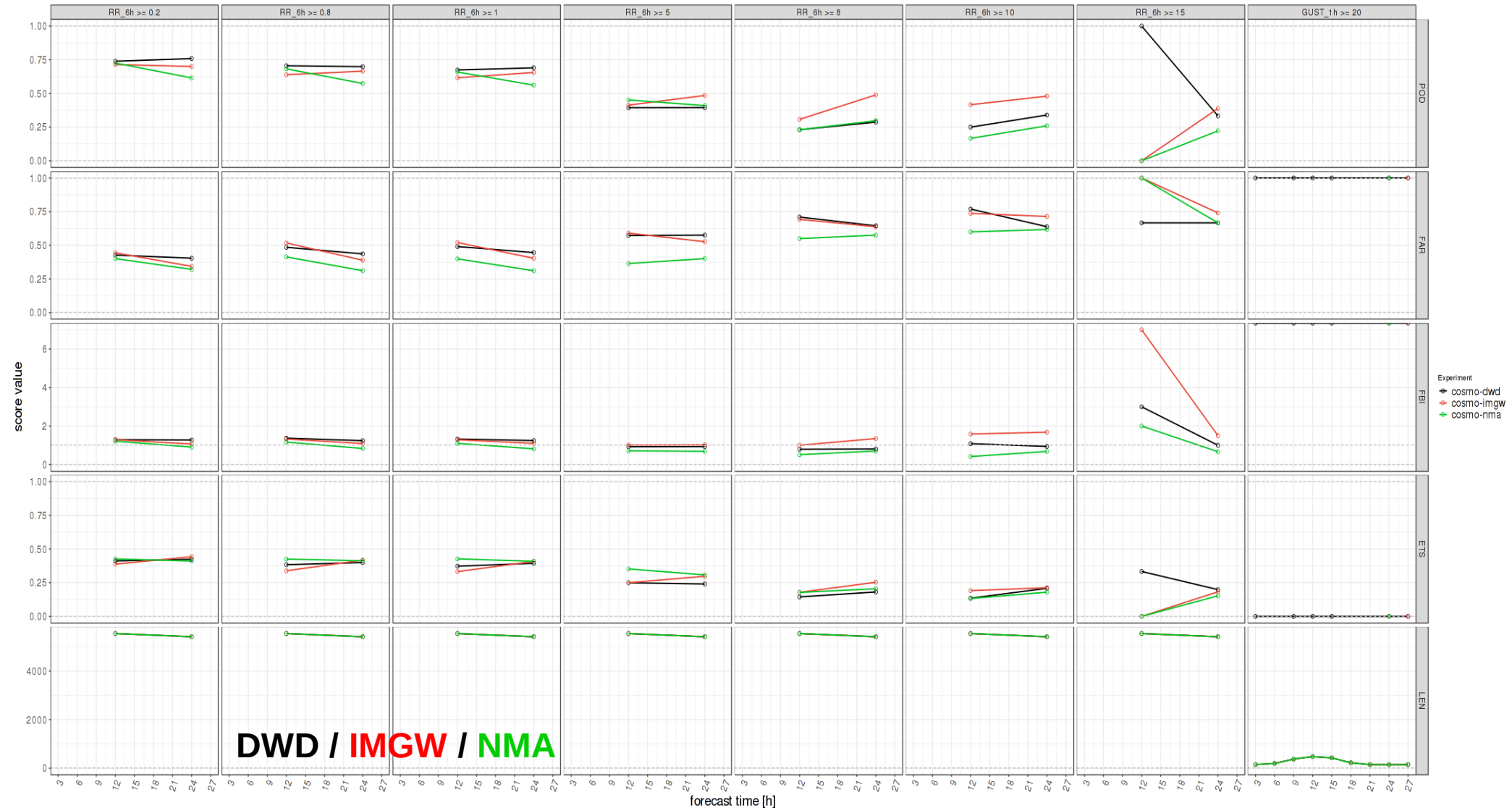
2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN



Results – CP (Intermediary)

CA1 / Precipitation

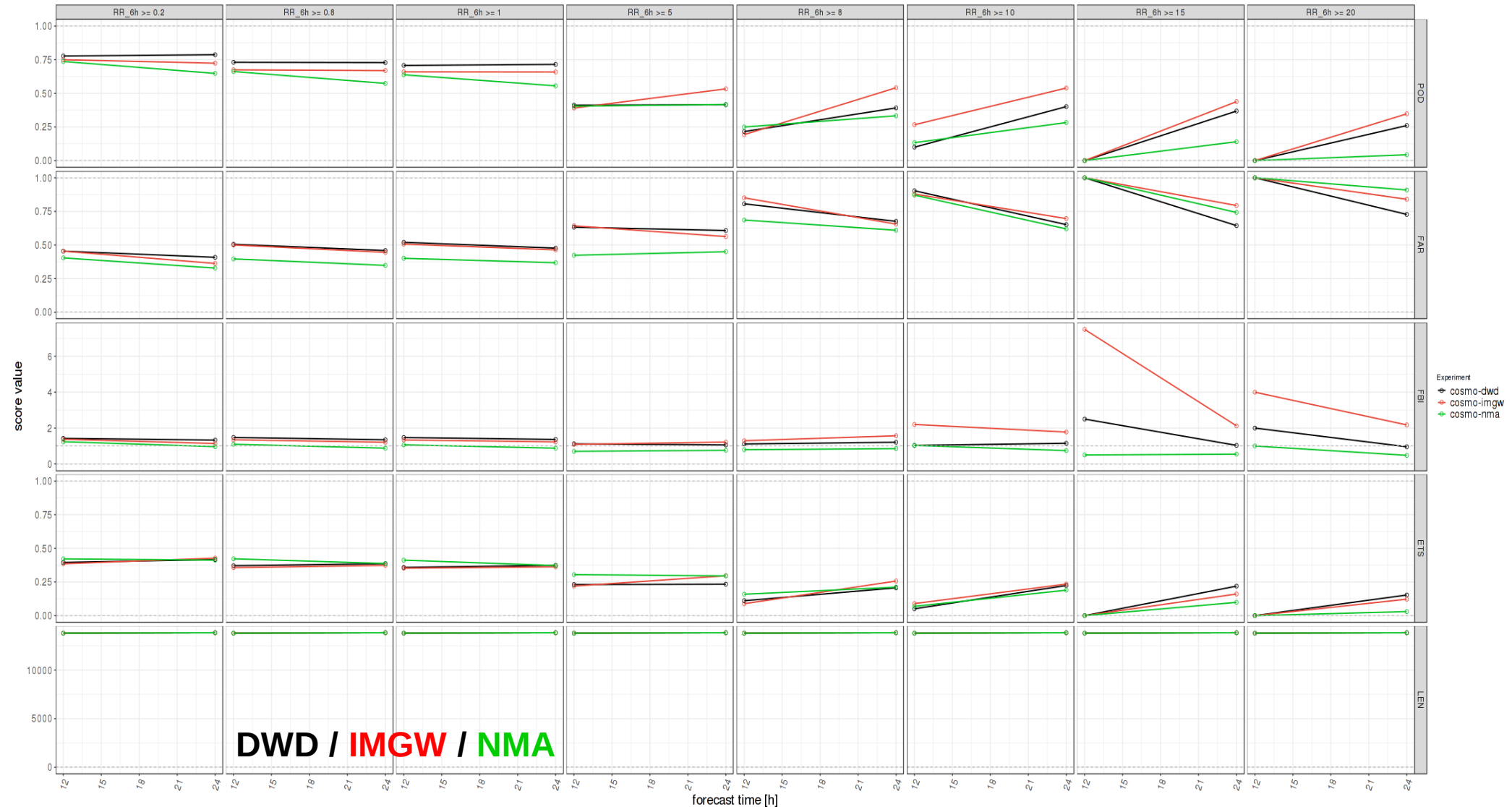
2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: CPSYN



Results – CP (Intermediary)

CA2 / Precipitation

2020.03.01-03UTC - 2020.05.31-21UTC
VAL: ALL UTC, INI: 00, STAT: ALL, DOM: C2SYN



Thank you!

Questions?

? Current (intermediary) results in a short
Newsletter article?

http://www.cosmo-model.org/shiny/apps/carma/fdbk_cont/