Epilogue

Presenter: William I. Gustafson Jr., PNNL

Computational resources for users to work with LASSO

► ARM provides user access to the *cumulus* cluster for working with LASSO data

► Best for working with large number of LASSO simulations

- LASSO data bundles pre-staged
- Ability to do additional computations on the cluster

► In process of refreshing the cumulus hardware

- Cumulus-1: 4032 cores, 2 PB storage
- Cumulus-2: ~16,000 cores by end of 2021 including some with 500 GB memory

► Request access via https://www.arm.gov/capabilities/computing-resources

LASSO takes a village to produce

▶ **LASSO team**

- ■ **Leadership:** William Gustafson (PI, PNNL) and Andrew Vogelmann (Co-PI, BNL)

- ■ **Modeling support:** Heng Xiao (PNNL) and Satoshi Endo (BNL)

- ■ **Data assimilation:** Zhijin Li (UCLA/JPL) and Xiaoping Cheng (National U of Def. Tech., China)

- ■ **Observations and software development:** Tami Fairless (BNL) and Karen Johnson (BNL)

- ■ **Web design and database development:** Bhargavi Krishna (ORNL), Kyle Dumas (ORNL), Michael Giansiracusa (ORNL)

▶ **ARM infrastructure team**

- ■ Instrument mentors & developers, HPC support, archive support, software developers, on-site instrument maintainers, communications support, finance specialists, long-term management support

▶ **Communications support for today's tutorial: Michelle Langevin, Stacy Larsen, Katie Dorsey**

Where to find more information

▶ High-level description and primary citation: BAMS article

  ■ Gustafson et al., 2020, BAMS, https://doi.org/10.1175/BAMS-D-19-0065.1

▶ Nitty gritty details: LASSO Technical Description

  ■ https://www.arm.gov/publications/tech_reports/doe-sc-arm-tr-216.pdf

▶ Web page: https://www.arm.gov/capabilities/modeling/lasso

▶ Technical support

  ■ lasso@arm.gov (goes to Andy and Bill)

    ● Works for any sort of question

    ● Best for reporting something broken

    ● Not publicly searchable

  ■ LASSO Discussion Forum on new ARM Discourse website: https://discourse.adc.arm.gov/

    ● **This is a new capability**–today's tutorial is the soft rollout!

    ● Encouraging folks to use this for general questions and discussion

    ● Content will build over time and become a community asset

▶ LASSO email list: http://us11.campaign-archive1.com/home/?u=74cd5b8a5435b8eca383fc18c&id=38f02e1568

▶ Please complete the tutorial survey: https://www.surveymonkey.com/r/lassowebinar21