

NOAA Global Systems Laboratory

Making IT Happen **An Overview** Building a Foundation for Science

Scott Nahman
Information & Technology Services; Chief



Global Systems Laboratory

Information Technology



Our Subject Matter Experts:



Jeff VanBuskirk

- Facility and Data Center Manager

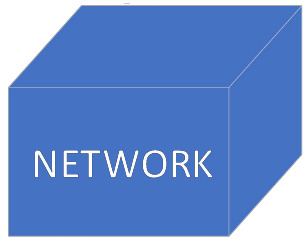


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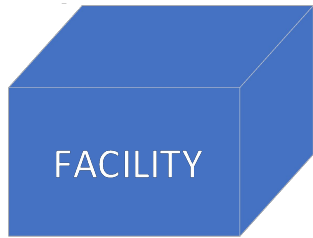


Adam Mabrouk

- Network Manager

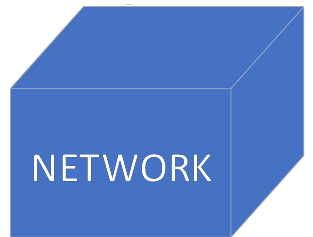


Our Subject Matter Experts:



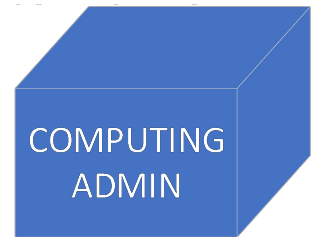
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Adam Mabrouk

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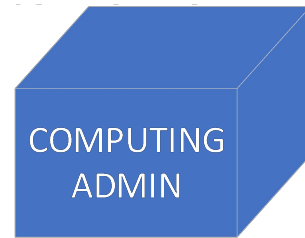
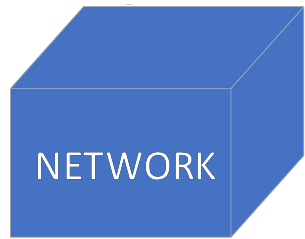
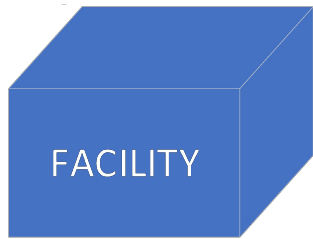


Randy Barnett

- IT Operations Manager



Our Subject Matter Experts:

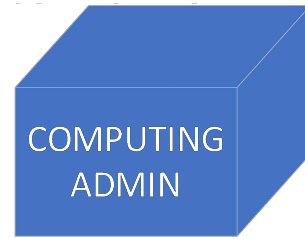
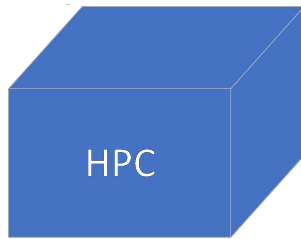
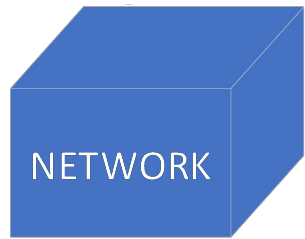


Bob Lipschutz

- Data Services Group Lead



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Bob Lipschutz

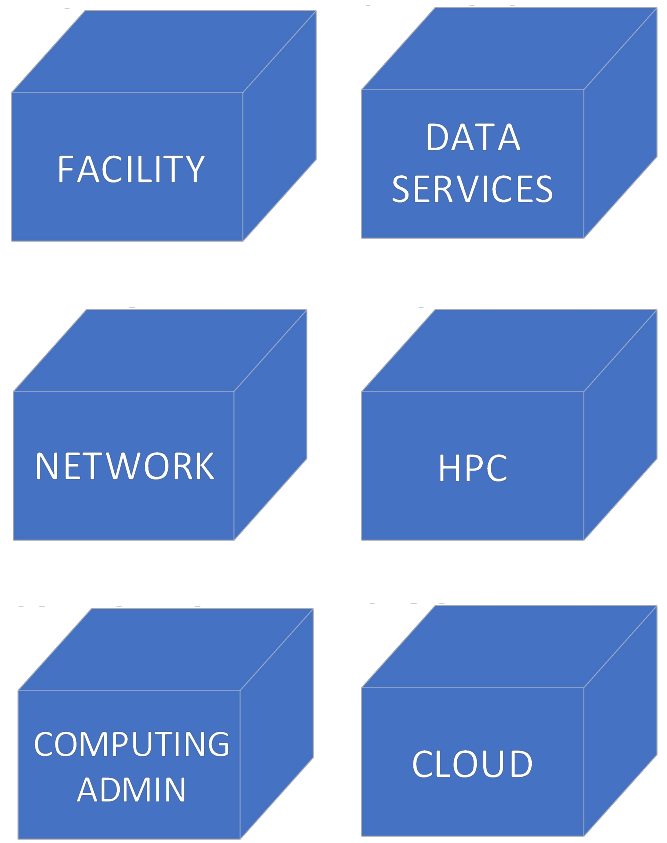
- Data Services Group Lead



Forrest Hobbs

- High Performance Computing Lead

Our Subject Matter Experts:



Bob Lipschutz

- Data Services Group Lead



Forrest Hobbs

- High Performance Computing Lead

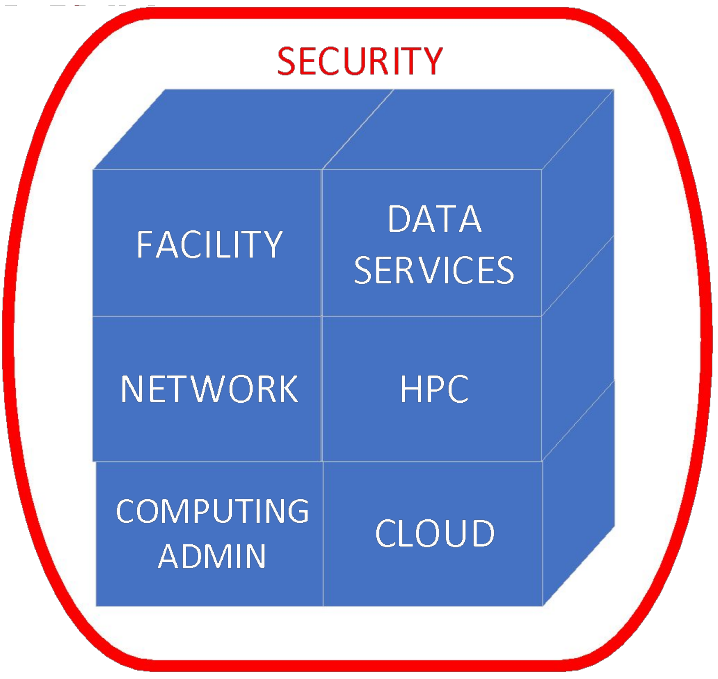
Kirk Holub

- GSL Cloud Manager

Our Subject Matter Experts:

Shannon Johnston

- IT Security Officer



Our Technical Experts:

Technical Experts within the Information & Technology Services Division

- 8 Federal
- 7 Cooperative Institute
 - CIRES
 - CIRA
- 14 Contract
 - Ace Information Solutions
 - Cherokee Services Group
 - General Dynamics IT

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- 8 Federal
- 7 Cooperative Institute
 - CIRES
 - CIRA
- 14 Contract
 - Ace Information Solutions
 - Cherokee Services Group
 - General Dynamics IT
- 4 Contract (GSL Division Support)

NOAA Global Systems Laboratory

IT Foundation for Science



Global Systems Laboratory

Information Technology



Our Guiding Principles

Reliable

- consistently good in quality or performance; able to be trusted

Resilient

- able to withstand or recover quickly from difficulty

Efficient

- achieving maximum productivity with minimum wasted effort

Effective

- successful in producing a desired result or fulfilling a specified function

Compliant

- adhering to policy, standard or specification

Our IT Goals

- IT Services to support science for improved forecasts
- Well managed and efficient facilities and infrastructure
- A reliable and resilient data network
- A robust scientific computing environment
- Data Services to enable research & development
- IT Security to protect facilities, systems and users
- A telework-ready and empowered workforce

Performance

- Network uptime greater than 99.99%
- Facility uptime higher than industry standards
- 6 Supercomputers collectively called JET
- Over 6TB of data saved to HPSS daily
- Compliant with 198 security controls

Quality

- Data Centers Optimized for efficiency (Bronze Medal)
- Older HPC HW managed through attrition with high availability
- Knowledgeable and Professional IT Staff

Relevance

- Foundational to GSL's mission
- Cloud and Data Management are two of 6 NOAA Science & Tech Strategies
- GSL co-Location and Multi-Lab services

Thank you!



Global Systems Laboratory