

AmLight Express and Protect (AmLight-Exp),
NSF #OAC-2029283



*South American-African Astronomy
Coordination Committee Meeting:
Welcome and Introduction
April 30 - May 1, 2024*

Julio Ibarra
Principal Investigator
Florida International University

AmLight Express and Protect Network

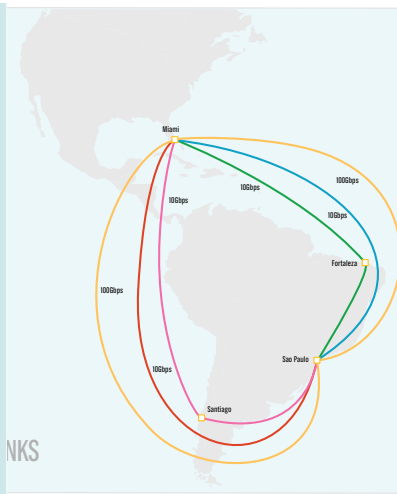
- AmLight Express and Protect (AmLight-Exp) interconnects the U.S. to key aggregation points in South and Central America, and Africa (Brazil, Chile, Panama, and Cape Town)
- AmLight-Exp is a 5-year award (OAC-2029283) from the U.S. National Science Foundation (NSF) to FIU, USC-ISI and Vanderbilt University
- Cooperative and collaborative partnerships with REDNESP, RNP, CLARA, REUNA, AURA, Vera Rubin Observatory, FLR, and Internet2



Evolution of AmLight: 2010 - 2024



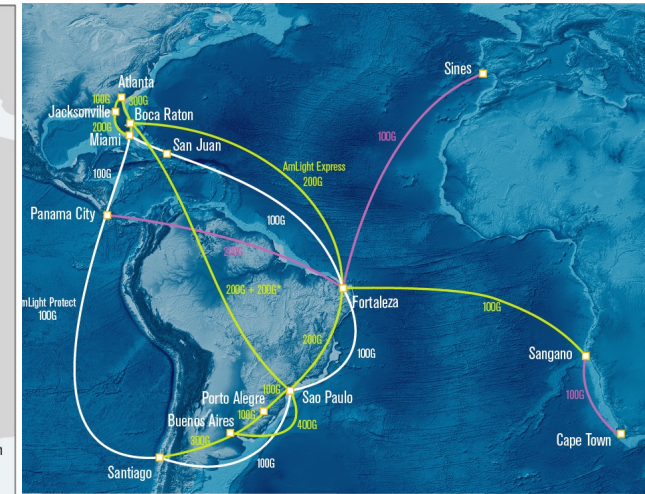
2011
 Leased Capacity,
 2x10G East
 1x1G Central
 1x10G West,
 Connections to
 RedClara and RENS.



2016
 Leased Capacity
 (linear),
 2x100G Ring
 4x10G Ring,
 SDN infrastructure,
 RedClara and RENS.



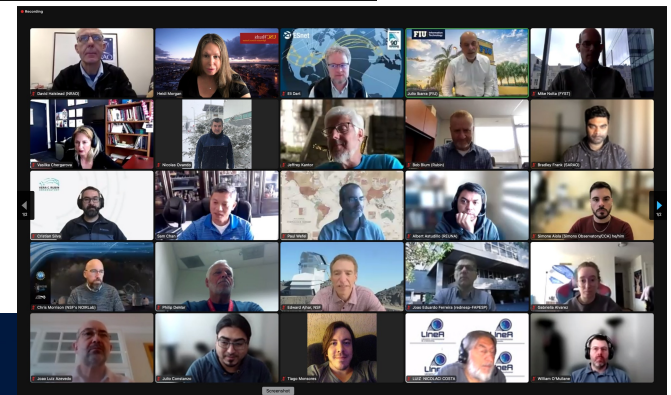
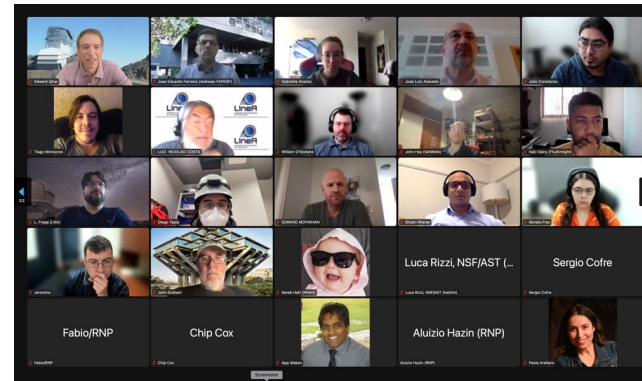
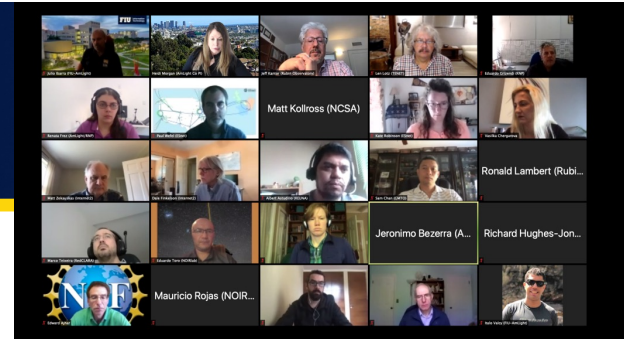
2021
 Spectrum & Leased Capacity,
 2x200G Express
 2x100G Protect,
 Multiple rings,
 SDN infrastructure,
 RedClara and RENS.



2024
 Spectrum & Leased Capacity,
 2x200G (+200G +400G) Express,
 2x100G Protect,
 Multiple rings*,
 SDN infrastructure,
 Deep programmability,
 Highly instrumented,
 RedClara and RENS.

About SA3CC

- SA3CC is in its 13th year!
- SA3CC is comprised of representatives from the various
 - Major Facilities operating observatories in South America and South Africa
 - The AmLight project, and operators of the Research and Education Networks (RENs) in South America, Africa and in the U.S.
- SA3CC Goals
 - To provide input and advice to AmLight and RENs on program and network needs
 - To serve as a venue for coordinating the network needs of astronomy projects and institutions
 - To improve the resource planning and implementation of operational connections between distant facilities and users in the continental US



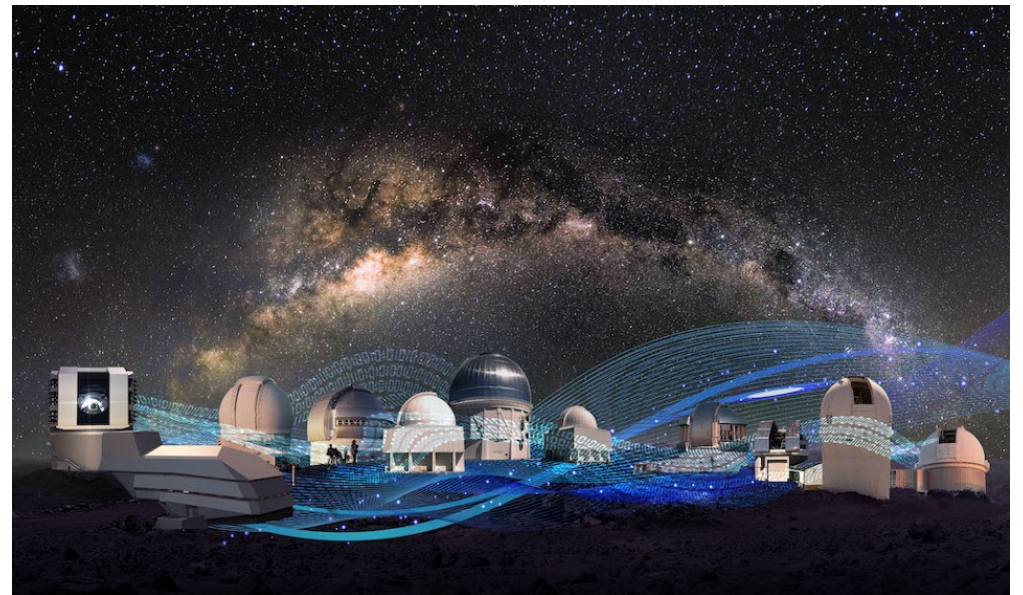
2023 SA3CC Meeting

- Location: Miami, Florida
- Hosted by Florida International University (FIU)
- Venue: FIU Kovens Conference Center
- Date: August 1-2, 2023



2023 SA3CC Report

- [2023 SA3CC Meeting Report](#) is available at the AmLight project website
- Thank you to everyone who contributed to the report
- Special thanks to Dr. Vasilka Chergarova for leading the report writing effort



2024 SA3CC Agenda

- Tuesday, April 30, 2024
- 9:00 - 9:10 Welcome
- Session I: Science Requirements & Activities Updates
 - 9:10 - 10:30 Project Updates (part 1)
 - 10:30 - 11:00 Refreshment Break
 - 11:00 - 12:20 Project Updates (part 2)
- 12:20 - 13:30 Lunch (on your own, Suggestions: SLACafé , Other options)
- 13:30 - 14:30 Project Updates (part 3)
- 14:30 - 14:50 Open discussion
- 14:50 -15:20 Refreshment Break
- 15:20 - 15:30 Walk to the meeting point and take group photo
- 15:30 - 16:45 Historic Tour of SLAC
- 18:30 - 20:30 Dinner at Dinah's Garden Hotel Restaurant (4261 El Camino Real, Palo Alto, CA 94306)
 - *Side parking is available for free.

- Wednesday, May 1, 2024
- 9:00-9:10 Welcome
- Session II: Network Provider updates
 - 9:10 - 10:30 Updates on network infrastructure and services (part 1)
 - 10:30 - 11:00 Refreshment Break
 - 11:00 - 12:20 Updates on network infrastructure and services (part 2)
- 12:20 -13:30 Lunch (on your own, Suggestions: SLACafé , Other options)
 - 13:30 - 14:50 Updates on network infrastructure and services (part 3)
- 14:50 -15:20 Refreshment Break
- 15:20 - 16:00 Updates on network infrastructure and services (part 4)
- 16:00 - 16:20 Open discussion
- Adjourn

Thank You!

- Presenters and Participants:
 - Thank you for taking time in your busy schedules to participate in the SA3CC
- Program Committee:
 - Bob Blum, Vasilka Chergarova, Heidi Morgan
- Logistics and Local Arrangements:
 - Special thanks to Vasilka for coordinating the presenters, venue and many logistical details
 - Extra special thanks for Regina Matter and Phil Marshall for all the local arrangements
 - Finally, many thanks to SLAC for hosting the SA3CC