



Sandia National Laboratories

Sandia National Laboratories Arctic Research Activities

- **Sandia Arctic Initiative overview:**

- *Sandia Arctic Initiative Report 2019 (PDF – 289.98 KB)*
https://www.sandia.gov/~ikalash/assets/documents/ArcticReportDesign_FINAL_rev.pdf

- **Sandia Arctic webpages:**

- Arctic science and security program
links: <https://energy.sandia.gov/programs/arctic/>
- Arctic Energy and Infrastructure
links: <https://energy.sandia.gov/programs/arctic/arctic-energy-infrastructure/>
- Microgrid and renewable energy technologies for the Arctic: <https://energy.sandia.gov/programs/arctic/arctic-energy-infrastructure/arctic-grid-renewable-energy-technologies/>
- Infrastructure resilience for the Arctic: <https://energy.sandia.gov/programs/arctic/arctic-energy-infrastructure/arctic-infrastructure-resilience/>
 - *Sandia Arctic Infrastructure Simulation Analysis Center 2018 (PDF -2.47 MB)* https://www.arcus.org/files/meeting/docs/sandia_arctic_infrastructure_simulation_analysis_center-2018.pdf
- Sandia Arctic Sciences: <https://energy.sandia.gov/programs/arctic/arctic-sciences/>
 - Sandia R&D Investments: <https://energy.sandia.gov/programs/arctic/arctic-sciences/arctic-research-development-investments/>

- Sandia Arctic R&D work is outlined in the Arctic Initiative Report-2019 (*same file as above*): *Sandia Arctic Initiative Report 2019*
 - link: https://www.sandia.gov/~ikalash/_assets/documents/Arctic_ReportDesign_FINAL_rev.pdf
 - Sandia Arctic coastal erosion model
 - *Sandia Arctic Coastal Erosion Model 2020 (PDF – 1.09 MB)*
https://www.arcus.org/files/meeting/docs/sandia_arctic_coastal_erosion_model_2020_.pdf
 - Arctic Measurements: <https://energy.sandia.gov/programs/arctic/arctic-sciences/measurements/>
 - North Slope DOE-ARM facilities: <https://www.arm.gov/capabilities/observatories/nsa>
 - Cool video of Sandia tethered balloon system launch from Oliktok, AK: <https://www.youtube.com/watch?v=pqHeP9mPt8o&feature=youtu.be>
 - Arctic modeling: <https://energy.sandia.gov/programs/arctic/arctic-sciences/modeling/>
 - Software for Arctic modeling and sensors: <https://energy.sandia.gov/programs/arctic/software/>
 - Proposed future Arctic R&D Network Center:
 - *Future Arctic Research Center 2018 (PDF - 870.6 KB)* - https://www.arcus.org/files/meeting/docs/future_arctic_research_center_2018.pdf
 - link: <https://energy.sandia.gov/programs/arctic/arctic-sciences/proposed-arctic-science-facilities/>
 - Sandia Arctic Security: <https://energy.sandia.gov/programs/arctic/arctic-security/>
 - Arctic operational support: <https://energy.sandia.gov/programs/arctic/arctic-security/operational-support/>
- **Arctic and Peace Engineering:**
 - *Arctic Peace Engineering Workshop -SNL,UAF,UCB,UNM, 07.20.2020 (PDF - 4.12 MB)* - https://www.arcus.org/files/meeting/docs/arctic_peace_eng_workshop_snluafulcbunm07202020.pdf
 - *in progress*: report and white paper