

oxidation for the southern sites, with the top six sites being located below the 31st parallel. However, this is not the only factor, as other low-ranking sites also fall below this threshold.

Conclusions

- Steel mass loss varied across the 17 sites. Typically, high mass loss was observed for coastal sites, but not definitively. Some results were unexpected initially, like WI being the most severe site (this is actually consistent with anecdotal evidence from WI maintainers), despite being a cool, low UV site located in a relatively sheltered bay. This finding supports on-going efforts to re-evaluate current maintenance intervals based on updated ESI data.
- Silver reduction analysis indicates that the ambient environment between the various sites is different in terms of quantity and type of deposited species. This data should be used to improve the accelerated test conditions used to mimic long-term testing at the different sites.
- Important differences in corrosion behavior between the 17 sites are observed. The data generated under this program will be used to adapt the NRL Key West test site to mimic different local conditions (using salt spray, length of exposure, or freshwater rinsing).
- These preliminary results will be supplemented by further analysis of returning samples and collected meteorological data to develop a more comprehensive understanding of the factors that control atmospheric corrosion.

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CHRISTINE SANDERS is a research chemist at the U.S. Naval Research Laboratory, Washington, D.C., USA, email: christine.sanders@nrl.navy.mil. She has been working at the U.S. NRL for 10 years and is the lead on marine atmospheric corrosion programs, which are serving to address issues for aircraft in the DoD. Sanders earned a Ph.D. in physical chemistry from Ohio State University.

RAYMOND SANTUCCI, JR. is an assistant research professor at the U.S. Naval Academy, Annapolis, Maryland, USA, email: raymond.santucci@nrl.navy.mil. He graduated from UVA upon completing his doctoral research on sacrificial coatings. He now researches atmospheric corrosion for the Navy, working on machine learning, environmental severity prediction, and monitoring techniques. He earned a Ph.D., and was awarded the NACE/AMPP A.B. Campbell Award. Santucci is a member of AMPP.

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