



Capabilities Statement

Cross Product Atmospheric, LLC is the Pacific Northwest's premier meteorological consulting firm (headquartered in Seattle, WA) – specializing in weather reporting/expert opinion, research, and natural hazards education. We have served.

We serve small businesses, corporations, non-government organizations, and non-profit entities in the technology, insurance, energy, transportation, and emergency management sectors; our mission is to deliver the most accurate, timely meteorological services to promote efficient and sustainable business operations.

General Information

Founded: October 2017

Headquarters: Seattle, WA

Status: Registered Small Business in SAM

DUNS Number: 111697369

CAGE Code: 8BB31

NAICS Codes: Sector 54
541690 (Primary)
541715
541990

Core Competencies

Forensic Weather & Expert Witness

- Event reconstruction, weather analysis, and reporting
- Private forecasting and weather prediction

Research & Data Science

- Applied meteorological studies
- Data engineering (ETL, data quality control), data visualization, and software
- Geospatial analysis (ArcGIS, QGIS)

Training

- Virtual/on-site education and exercise facilitation
- Technology transfer

Communications

- Proposals (technical/non-technical narratives)
- Marketing and technical content development

Past Performance

Field weather observation specialist in MPEX (2012), IPHEX (2014), OLYMPEX (2015)

Senior scientist for weather-insurance technology firm (2016-2017)

125-day deployment to San Juan, PR for FEMA's STEP recovery program after Maria (2018)

Zero-emissions technology feasibility assessments for global maritime sector (2018-2021)

Climate adaptation course development for FEMA's AWR-347 revision (2020-2021)

Technical communications for industry leading micro-weather technology start-up (2020-2021)

Clients



Qualifications and Experience

Dr. Douglas C. Stolz holds a Ph.D. in atmospheric science from Colorado State University as well as Masters and Bachelors of Science degrees in tropical meteorology from the University of Hawaii at Mānoa. He also holds the Certified Consulting Meteorologist (CCM) seal from the American Meteorological Society. His technical expertise areas are radar meteorology, precipitation physics, and lightning climatology; his previous studies included numerical weather prediction, advanced radar data processing, and climate. Beyond weather and climate science, his training includes data science (e.g., ML/AI), geographic information systems, natural hazards and disaster response/recovery, and course facilitation for adult learners. Dr. Stolz is the current chair of the Ethics & Standards Committee of the Association of Certified Meteorologists and liaison to the American Meteorological Society's Board of Best Practices.

Dr. Stolz has conducted ten years of atmospheric research leading to publications in the peer-review literature, including contributions to the Journal of Geophysical Research and an invited talk at the American Geophysical Union's annual meeting. He has co-authored works exploring the feasibility of wind-assist propulsion technology for decarbonizing global shipping as well as the integration of climate science in emergency management. As a CCM (AMS #761) serving the technology, transportation, utility/energy, and insurance sectors since 2016, Dr. Stolz leads professional training exercises (e.g., on behalf of the National Domestic Preparedness Consortium/FEMA), collaborates on product development, authors technical research proposals, and carries out forensic weather investigations (e.g., for insurance claims assessment and litigation).

Mailing Address

Cross Product Atmospheric, LLC
P.O. Box 12231
Seattle, WA 98102