



Capabilities Statement

Cross Product Atmospheric, LLC provides expertise in atmospheric science to promote more efficient business practices, technological advancement, and resilient community development. Cross Product helps its clients address the constant threat of changing weather and climate conditions.

Headquartered in Seattle, WA (formerly Houston, TX), the certified small business entity is operated by Dr. Douglas Stolz, Managing Atmospheric Science Consultant, following nearly a decade of atmospheric science research conducted at renowned weather & climate research institutions in the United States.

General Information

Founded: October 2017

Headquarters: Seattle, WA

DUNS Number: 111697369

CAGE Code: 8BB31

Status: Registered Small Business in SAM

NAICS Codes: Sector 54
541690 (Primary)
541715
541990

Capabilities

Meteorological/Climatological Data Analysis

- Expert interpretation of meteorological weather radar data
- High-impact weather analysis and forecasting
- Data curation—granular weather and global climate data procurement/cleansing/delivery
- Scientific code development (exploratory statistics, time series, machine learning in Python)
- Geospatial Analysis (ArcGIS and open-source platforms)

Training

- Technical content development
- Face-to-face instruction, remote/virtual delivery, and facilitated exercises
- Technology transfer—mobile device and dashboard utilization training

Technical Writing

- Technical proposal development (Small-Business Innovation Research program contributions)
- White paper development, marketing communications, and technical manuscript preparation

Past Performance

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

Senior scientist for weather-insurance technology product development (2016)

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

Technical proposal development for novel DoD applications of micro-weather technologies (2019)

Climate adaptation course development for FEMA's AWR-347 revision; Certified instructor (2020)

Clients



Qualifications and Experience

Dr. Douglas C. Stolz has ten years of rigorous atmospheric research experience leading to multiple first-author publications in the peer-review literature (*Google Scholar citations: 70+*) and conference proceedings. His technical expertise areas are radar meteorology, remote sensing, precipitation microphysics, and lightning climatology. Dr. Stolz's expanded focus areas of professional interest are climate variability, cloud dynamics, and numerical modeling.

As a scientific consultant, Dr. Stolz leads efforts to educate adult professionals on the use of innovative technologies and real-time information for actionable decision making. Drawing on his research background, Dr. Stolz has collaborated with multiple partners and organizations to develop analyses promoting both novel scientific discovery as well as new international legislation. Dr. Stolz has been working at the intersection of weather/climate with technology, emergency management, transportation, utility/energy, and insurance business sectors since 2016.

Contact

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

P: +1 (425) 270-7148