

Jeffrey R. Key

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Full vita is available at <http://stratus.ssec.wisc.edu/jkey>

Professional Positions

Supervisory Physical Scientist and Branch Chief, Advanced Satellite Products Branch, National Oceanic and Atmospheric Administration (NOAA), National Environmental Satellite, Data, and Information Service (NESDIS), Madison, WI, 2003-present.

Acting Division Chief, Cooperative Research Program (CoRP), Center for Satellite Applications and Research (STAR), NOAA/NESDIS, 02/2018-present.

Past Positions: **Physical Scientist**, NOAA/NESDIS, 1999-2002; **Associate Professor** (tenured), Department of Geography, Boston Univ., 1995-1999; **Research Associate**, CIRES, Univ. of Colorado-Boulder (CU), 1989-1995; **Assistant Professor Attendant Rank**, Dept. of Geography, CU, 1994-1995; **Lecturer**, Astrophysical, Planetary and Atmospheric Sciences Dept., CU, 1990-1995; **Instructor**, Dept. of Mathematical Sciences, Univ. of Alaska-Anchorage, 1984-1987.

Education

Ph.D., 1988, University of Colorado, Boulder, Dept. of Geography (Climatology)

M.A., 1982, Northern Michigan University, Dept. of Geography (Resource Analysis)

B.S., 1979, Northern Michigan University, Dept. of Geography (Environmental Conservation)

Recent Professional Activities

WMO Executive Council panel on Polar and High Mountain Observations, Research and Services (EC-PHORS); WMO Global Cryosphere Watch (lead/co-lead on multiple teams); WMO Polar Space Task Group (Vice-Chair).

Grants

PI, Co-PI, or Co-I on 69 grants totaling over \$31M since 1990.

Publications

Author/co-author on 120 journal papers and other peer-reviewed publications, 5 book chapters, 16 technical and data reports (some peer-reviewed), numerous workshop reports, and 80+ conference proceedings papers. h-index: 51, i10-index: 97 (October 2018, Google Scholar).

Teaching

Taught 15 different courses (total of 33 sections) in remote sensing, meteorology, statistics, geography, and computer science at Boston University, University of Colorado-Boulder, University of Alaska-Anchorage, and Northern Michigan University.

Major Satellite Products

Operational Products: AVHRR Polar Pathfinder (APP) and AVHRR Polar Pathfinder (APP-x); Real-time polar winds from MODIS, AVHRR, and VIIRS; GCOM-W1 AMSR2 snow and ice products; S-NPP VIIRS ice products; GOES-16 ABI ice and snow products. **Other:** Historical polar winds from AVHRR. **Software:** Streamer, a radiative transfer model; FluxNet, a radiative transfer neural network

Fieldwork

Great Lakes Winter Experiment (GLAWEX), 2017; McMurdo, Antarctica, 2004; Surface Heat Budget of the Arctic Ocean (SHEBA), 1998; Greenland Ice Sheet, 1995; Beaufort and Arctic Seas Experiment (BASE), 1994; Seasonal Sea Ice Monitoring and Modeling Site (SIMMS), 1993; SIMMS, 1992; LEADDEX, 1992; U.S. Fish and Wildlife Service sea lamprey surveys, 1980-1982.