



Acronym List

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
Q | R | S | T | U | V | W | X | Y | Z

S

| Acronym | Full name | Comments |
|----------------------|---|-----------------------------------|
| S&B | Salary and Benefits | |
| S&R | Search and Rescue | |
| S&T | Science and Technology | |
| S/N | signal-to-noise ratio | SNR is also used |
| S/TM | stratospheric/tropospheric measurements | |
| SABL | Scanning Aerosol Backscatter Lidar | NCAR, ATD |
| SAC | Strategic Air Command | |
| SAC | Science Advisory Committee | |
| SAC-C | Argentina's Scientific Applications Satellite | |
| SADCC | South African Development Coordination Conference | |
| SAFARI - 2000 | The Southern African Regional Science Initiative | NASA, Goddard Space Flight Center |
| SAFARI | Southern African Fire-Atmospheric Research Initiative | |
| SAFE | A Proposed Australian Savanna Fire Experiment | |
| SAGE | Stratospheric Aerosol and Gas Experiment | A satellite experiment of NASA |
| SAI | sudden auroral intensity | |

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|---------------|---|---------------------------------|
| SAIC | Science Applications International Corporation | |
| SAM | Subsynoptic Advection Model | |
| SAM | sun-angle magnetometer | |
| SAM | Stratospheric Aerosol Measurement | a satellite instrument |
| SAM I | Sensing with Active Microwaves | |
| SAMS | Stratospheric and Mesospheric Sounder | |
| SAO | Surface Airways Observation | |
| SAO | semiannual oscillation | |
| SAR | Synthetic Aperture Radar | |
| SAR | Subcommittee on Atmospheric Research | NSF |
| SAR-C | SAR-C Band | |
| SARSAT | Search and Rescue Satellite-Aided Tracking | NOAA |
| SAR-X | SAR-X Band | |
| SAS | small astronomy satellite | NASA |
| SAS | statistical analysis system | |
| SAV | state-of-the-atmosphere variable | |
| SAVE | Stratospheric Aerosol Validation Experiment | |
| SAVE | South Atlantic Ventilation Experiment | U. Miami |
| SAWRS | Supplementary Aviation Weather Reporting System | |
| SBF | Scientific Balloon Facility | Palestine, Texas, also see NSBF |
| SBIR | Small Business Innovative Research | |
| SBUV | Solar Backscatter Ultraviolet | spectrometer |
| SC | subtropical stratocumulus | |

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|------------------------------------|--|---|
| Scales of motion | A scale (planetary) 2,000-10,000 km B scale (synoptic) 100-1,000 km C scale (mesoscale) 10-100 km D scale (convective) 1-10 km | GARP |
| SCAMS | Scanning microwave spectrometer | Nimbus F |
| SCAR | Scientific Committee for Antarctic Research | ISCU subcommittee |
| SCAR | Special Committee for Antarctic Research | GARP |
| ScaRaB | Scanner for Radiation Budget | |
| SCATE | Sulfur Chemistry in the Antarctic Troposphere Experiment | |
| SCATT | Scatterometer | |
| scatter, same as scattering | | The process by which matter is excited to radiate by an external source ⁴ of electromagnetic radiation |
| SCCCAMP | South Central Coast Cooperative Aerometric Monitoring Program | |
| SCCM | Single-column CCM | |
| SCD | Scientific Computing Division | NCAR |
| SCDUG | Scientific Computing Division Users Group "scelming", a process of running older tapes through a computer to check on their condition | |
| SCEP | Study of Critical Environmental Problems | Williamstown, 1970 |
| SCF | standard cubic feet | |
| SCGB | Special Committee for the Geosphere-Biosphere | |
| SCM | Stratospheric circulation model | GARP |
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|----------------|---|--|
| SCM | small core memory | |
| SCM | solar constant monitor | |
| SCMS | Software Configuration Management Section | |
| SCO | subcarrier oscillators | |
| SCOPE | Scientific Committee on Problems of the Environment | ISCU committee |
| SCOR | Scientific Committee for Oceanographic Research | ICSU subcommittee |
| SCOSTEP | Scientific Committee on Solar-Terrestrial Physics | |
| SCPP | Sierra Cooperative Pilot Project | |
| SCR | selective chopper radiometer | Nimbus E, GARP |
| SCR | silicon controlled rectifier | |
| Scripps | Scripps Institution of Oceanography | University of California, P.O. Box 308, La Jolla, California 92037 |
| SCS | Soil Conservation Service | USDC |
| SCSC | Summer Computer Simulation Conferences | |
| SCSI | Small Computer System Interface | |
| SCST | State Committee on Science & Technology | USSR |
| SCST | State Committee on Science & Technology | USSR |
| SD | standard deviation | |
| SDAM | Satellite Data Access and Management format | |
| SDBE | Shear-Directed Balloon Experiment | |
| SDD | Systems Development Division | FSL |
| SDF | Shared Data Facility | |
| SDHS | Satellite Data Handling | |

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|----------------|---|-------------------------------|
| | System | |
| SDM | Suit of software for UNIX-based computing platforms | |
| SDM | Scientific Data Management | |
| SDS | solar disk sextant | |
| SDS | Scientific Data Systems | |
| SDSC | San Diego Supercomputing Center | |
| SDSD | Satellite Data Services Division | NOAA, NESDIS |
| SDSMT | South Dakota School of Mines & Technology | |
| SDVR | Single-Doppler Velocity Retrieval | |
| SEAB | Secretary of Energy Advisory Board | Warren Washington, April 1990 |
| SEAC | (National Bureau of) Standards Eastern Automatic Computer | |
| SEASAT | Sea Satellite | NASA |
| SEAWIFS | Sea Wide-Field Sensor | |
| SEC | Securities & Exchange Commission | |
| SEC | Science Executive Committee | |
| SEDI | Structure of the Earth's Deep Interior | |
| SEE | Solar EUV Experiment | 1973 |
| SEL | Space Environment Laboratory | NOAA |
| SEAD | Secretary of Energy Advisory Board | Warren Washington, 4/90 |
| SEDI | Structure of the Earth's Deep Interior | |
| SEM | Scanning Electron Microscope | |
| SEM | Space Environment | |

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|-------------------|--|--|
| | Monitor | |
| SEM | system element management | |
| SEQUAL | Seasonal Equatorial Atlantic Study | |
| SERI | Solar Energy Research Institute | |
| SERON | Southeastern Regional Oxidant Network Program | UCAR |
| SERP | Strategic Environmental Research Program | |
| SERS | STORM Education and Research System | NOAA |
| SERON | Southeastern Regional Oxidant Network Program | UCAR |
| SERP | Strategic Environmental Research Program | |
| SESAME | Second European Stratospheric Arctic and Mid-Latitude Experiment | |
| SESAME | Severe Environmental Storms and Mesoscale Experiment | |
| SESQUINET | | Texas-based regional network, named for their sesquicentennial celebration |
| SESS | Space Environment Support System | Air Force, ERL/NOAA, Navy, Universities |
| SETA | satellite electrostatic triaxial accelerometer | |
| SFC or sfc | surface | |
| SG | semigeostrophic | model |
| SG&A | Sales, General and Administration | |
| SGGE | Second GARP Global Experiment | |
| SGI | Silicon Graphics Inc. | the name of a high-resolution graphics workstation |

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|-----------------|---|--------------------------------------|
| | | manufactured by Silicon Graphics) |
| SGML | standard generalized markup language | |
| SGS | subgrid scale | |
| SH | Southern Hemisphere | |
| SHEBA | Surface Heat Budget of the Arctic Ocean | |
| SHEF | standard hydrometeorological exchange format | |
| SHF | super high frequency | 3-30 GHz (Gigahertz) |
| SHIRE | Southern Hemisphere Infrared Experiment | |
| SI | Solar Interiors Section | HAO |
| SI | systeme international | for metrification |
| SIAM | Society for Industrial and Applied Mathematics | |
| SibIZMIR | Siberian Institute of Terrestrial Magnetism, Ionosphere, and Radio Propagation | |
| SICIMS | Selected Iron Chemical Ionization Mass Spectrometry (or Spectrometer, depending on usage) | |
| SID | sudden ionospheric disturbance | |
| SIE | Scale Interaction Equipment | |
| SIFE | Second ISLSCP Field Experiment | |
| SIGGRAPH | Special Interest Group on Graphics of the Association of Computing Machinery | |
| SIGMA | Software for Interactive Graphics and Model Analysis | |
| SIGMET | significant meteorological | |

| | information | |
|---------------|--|---|
| SIM | Solar interplanetary model | HAO, SIM I, SIM II |
| SIO | Scripps Institution of Oceanography | University of California at San Diego |
| SIPI | Scientists' Institute for Public Information, Inc. | |
| SIPRI | Stockholm International Peace Research Institute | |
| SIR | Shuttle Imaging Radar | |
| SIR | Spaceborne Imaging Radar | |
| SIRIS | Stratospheric Infrared Interferometer Spectrometer | |
| SIRS | satellite infrared spectrometer | |
| SIRS | Social Issues Resources Services, Inc. | a publishing company |
| SISEX | Shuttle Imaging Spectrometer Experiment | |
| SISP | Surface Imaging & Sounding Package | NASA, EOS |
| SJVAQS | San Joaquin Valley Air Quality Study | |
| SKE | specific kinetic energy | |
| skew T | | An emagram with the isotherms rotated 45 degrees clockwise to produce greater separation of isotherms and dry adiabats. |
| SLA | | SLA Translation Service, John Crerar Library, 86 Randolph Street Chicago, Illinois |
| SLAC | Stanford Linear Accelerator Center (or Collider) | |
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|--------------------|--|---|
| SLACE | Surface Layer Atmospheric Chemistry Experiment | |
| SLAP | Shuttle Laser Altimeter Prototype | experiment |
| SLAP | space link access protocol | |
| SLAPS | St. Louis Air Pollution Study | became FAPS |
| SLAR | side-looking airborne radar | |
| SLATEC | Sandia-Los Alamos Air Force Weapons Laboratory Technical | mathematical software developed by Sandia National Laboratory, Los Alamos National Lab, and the Air Force Weapons Laboratory Technical Exchange Committee |
| SLATT | stratospheric latitudinal and temporal trends (exchange committee) | |
| SLED | Single Large Expensive Disk | |
| SLIP | Serial Line Internet Protocol | |
| SLPA | Sea-Level Pressure Anomaly | |
| SLR | Satellite Laser Ranging | |
| SLP | sea level pressure | |
| SLT | semi-Lagrangian transport | |
| SLU | Saint Louis University | |
| SLW | supercooled liquid water | |
| SMA | Segnalamento Marittimo ed Aereo | |
| SMAGS | SPAN/MASnet Gateway Server | |
| SMART-Radar | The Shared Mobile Atmospheric Research and Teaching Radar | |
| SME | Solar Mesosphere | |

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|--------------------|--|---|
| | Explorer | |
| SME | Stratosphere-Mesosphere Explorer Satellite | |
| SMETE | National SMETE (Science, Math, Engineering and Technology Education) Digital Library | |
| SMG | Scientific and Management Group | TEB, GARP, see ISMG |
| SMI | Solar Magnetism Initiative | |
| SMIC | Study of Man's Impact on Climate | Stockholm, 1971, sponsored by MIT, hosted by Royal Swedish Academy of Science |
| SMILE | Surface Layer Mixed Experiment | ATD uses Shelf Mixed Layer Experiment |
| Smithsonian | Smithsonian Center for Astrophysics | see Harvard/Smithsonian |
| SMM | Solar Maximum Mission | 1980s |
| SMMR | Scanning Multichannel Microwave Radiometer | |
| SMOG | | aerosol studies |
| SMOW | standard mean ocean water | |
| SMRP | Satellite and Mesometeorology Research Project | University of Chicago |
| SMS | Synchronous Meteorological Satellite | GARP |
| SMS | Scalable Modeling System | FSL |
| SMSC | Shared-Memory Supercomputer systems | |
| SMTP | Simple Mail Transfer Protocol | |
| SND | skewed normal distribution | |
| snow | | Precipitation composed of white or translucent ice crystals. |

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|-----------------|---|--|
| SNMP | Simple Network Management Protocol | |
| SNR | signal-to-noise ratio | S/N is also used |
| SOAP | Simple Object Access Protocol | |
| SOARS | Significant Opportunities in Atmospheric Research and Science | NCAR |
| SOCRATES | Simulation of Chemistry, Radiation & Transport of Environmentally Important Species | |
| SODAR | Sonic backscatter technique for measuring wind profiles | |
| SOFAR | Sound, Far, and Ranging | Long-range ranging technique using the sound channel and underwater floats |
| SOHO | Solar and Heliospherical Observatory | |
| SOI | solar oscillations imager | |
| SOI/MDI | Solar Oscillations Imager/Michelson Doppler imager | |
| soil air | | The air and other gases in spaces in the soil. |
| SOLAR-B | | (Not an acronym B refers to satellite whose mission is to understand the physical processes responsible for dynamics and heating of the outer solar atmosphere, B is the 2nd generation) |
| soliton | solitary wave | has been in use since early 1960's |
| SOLRAD | NASA satellite | |
| SOLSTICE | Solar/Stellar Irradiance Comparison Experiment | NASA/UARS |
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|-----------------|---|-----------------------|
| SOLSTICE | Solar/Stellar Intercomparison Experiment | |
| SOLVE | SAGE Ozone Loss Validation Experiment | Kiruna, Sweden |
| SONIC | SPAN Ocean Network Information Center | |
| SOO | Science and Operations Officer | |
| SOO/SAC | Science and Operations Officer/Scientific Applications Computer | NWS |
| SOPAC | Scripps Orbit and Permanent Array Center | |
| SOR | Successive Over Relaxation | |
| SOS | Southern Oxidant Study | EPA, 1988-1999 |
| SOS | Swiss Oxidant Study | 1993 |
| SPACE | Satellite Precipitation and Cloud Experiment | Alabama |
| SPAN | Space Physics Analysis Network | NASA |
| SPANDAR | Space Range Radar | |
| SPAR | Spaceborne Rawinsonde | |
| SPARC | Stratospheric Processes and Their Role in Climate | |
| SPAWAR | Space and Naval Warfare Systems Command | |
| SPC | small particle count (or counter) | |
| SPC | Sector Processing Center | |
| SPC | Storm Prediction Center | |
| SPEC | Scientific Programs Evaluation Committee | UCAR |
| SPEC | Strategic Planning and Evaluation Committee | |
| SPECMAP | Spectral Mapping | of climate parameters |
| SPIE | Society of Photo-optical | |

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|----------------|---|---|
| | Engineers | |
| SPIE | International Society for Optical Engineering | |
| SPIRES | Stanford Physics Information Retrieval System | data base catalog management system |
| SPL | SLATEC Plotting Library | |
| SPO | Sacramento Peak Observatory | |
| S-POL | S-band Dual Polarization Doppler Radar | |
| SPOT | Systeme pour l'Observation de la Terre (France) | NCAR, ATD uses Systeme Probatoire d'Observation de la Terre |
| SPPS | System Plot Package Simulator | NCAR Graphics |
| SPRINT | sorted position radar interpolator | |
| SPTVAR | Special Purpose Test Vehicle for Atmospheric Research | |
| Sq | Solar quiet | |
| S&R | Search and Rescue | |
| SR | scanning radiometer | ITOS |
| sr | steradian | |
| SRC | Science Research Council | United Kingdom |
| SRES | Special Report on Emissions Scenarios | |
| SRON | Space Research Organization of the Netherlands | |
| SRRS | Service Record Retention System | |
| SSAI | Science Systems Applications Incorporated | Greenbelt, Maryland |
| SSB | single sideband | |
| SSB | Soaring Society of Boulder | |
| | | |

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|---------------|--|---|
| SSBLIM | Snow Shading Boundary Layer Interaction Measurement | |
| SSC | Scientific Steering Committee | |
| SSC | Superconducting Super Collider | |
| ssc's | sudden storm commencements | |
| SSCE | Surface Ship Cloud Effects project | |
| SSD | solid-state disk | |
| SSD | Cray's Solid-state Storage Device on the CRAY X-MP/48 computer | |
| SSEC | Space Science and Engineering Center | University of Wisconsin, Madison, designer of the McIDAS and Unidata PC-McIDAS software |
| SSI | Strategic Simulation Initiative | |
| SSL | Space Sciences Laboratory | University of California, Berkeley |
| SSM/I | Special Sensor Microwave Imager | |
| SSM/I | Special Sensor for Microwave/Imaging | |
| SSM/R | Special Sensor Microwave Radiometer | |
| SSM/T | Special Sensor Microwave Temperature | |
| SSS | Safety and Site Services | |
| SSS | software segment specification | |
| SSSF | Surface Sounding Systems Facility | NCAR, ATD |
| SST | sea surface temperature | |
| SSTs | sea surface temperatures | |
| SST | scalable spectral tool | component of the Scalable Modeling |

| | | System |
|---------------|--|-------------------------------------|
| SST | Supersonic Transport | |
| SSTs | sea surface temperatures | |
| SSU | Stratospheric Sounding Unit | |
| STA | System Technology Associates, Inc. | |
| STAC | Scientific and Technological Activities Commission | AMS |
| STACS | Subtropical Atlantic Climate Studies | |
| STAMP | Second Thunderstorm and Microburst Project | |
| STARE | Southern Tropical Atlantic Regional Experiment | |
| STC | Sensitivity Time Control | radars |
| STC | Society for Technical Communication | |
| STD | salinity, temperature, and depth | standard oceanographic measurements |
| STEM | Science Technology Engineering and Mathematics | |
| STEM | scanning-transmission electron microscope | |
| STEP | Stratosphere-Troposphere Exchange Project | |
| STEP | Solar Terrestrial Energy Program | |
| STEPS | Severe Thunderstorm Electrification and Precipitation Study | |
| STERAO | Stratosphere-Troposphere Experiments: Radiation, Aerosols, and Ozone | |
| STF | Short-Term Forecast | |
| STI | Scientific & Technical Information | see DDC |
| | | |

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|-------------------|--|--|
| STIP | Study of Traveling Interplanetary Phenomena | |
| STIWG | Satellite Telemetry Interagency Working Group | |
| STJ | subtropical jet | |
| STK | StorageTek | |
| STL | Space Technology Laboratory, Inc. | Los Angeles, CA |
| STOL | short takeoff and landing | |
| STORM | Stormscale Operational and Research Meteorology | name change 3/92 to United States Weather Research Program |
| STORM DAWG | STORM Data Assimilation Working Group | |
| STORM-FEST | STORM Fronts Experiment Systems Test | |
| STP | solar terrestrial physics | |
| STP | standard temperature and pressure | |
| STRADAP | storm radar data processor | |
| STRATCOM | Stratospheric Composition Experiment | Sandia Lab and WSMR's Atmospheric Science Lab |
| STRATEX | Stratocumulus Experiment | |
| STRATRAD | Strategic Management of Research and Development | |
| STSP | Solar Terrestrial Science Programme | |
| STREX | Storm Transfer and Response Experiment | QMR, 9/79 |
| STS | Seasonal Transition Simulation | GARP |
| STS | Space Transportation System | |
| STSP | Solar Terrestrial Science | |

| | Programme | |
|------------------|--|--|
| STT | Small Tactical Terminal | U.S. Air Force |
| SUB-MM | Submillimeter Spectrometer | |
| SUDOOS | Sun/UNIX DICOMED Online Operating System | |
| SUDS | System for User Editing and Display of Soundings | |
| SunRISE | Radiative Input from the Sun to the Earth Program | |
| SUNY | The State University of New York | Stony Brook |
| SUNYA | State University of New York, Albany | |
| SUPERNET | Colorado-based state network | named for the intent to be a super network |
| SURANET | Southeastern Universities Research Association Network | |
| surrogate | | to put in place of another |
| SUSIM | Solar Ultraviolet Spectral Irradiance Monitor | NASA/UARS |
| SVAT | surface vegetation-atmosphere transfer | |
| SVG | Scientific Visualization Group | |
| SVHS | super video-home system | |
| SVP | Surface Velocity Program | |
| SVT | simulated variable thickness | |
| SW/HW | Software/Hardware | |
| SWAP | Severe Weather Avoidance Program | |
| SWARS | Supplementary Aviation Weather Reporting Station | |
| SWCP | South West Cooperative Program | |

| | | |
|------------------------|---|-----------|
| SWE | Snow-Water Equivalent | |
| SWEAT | Severe Weather Threat | |
| SWIRLS | Stratospheric Wind Infrared Limb Sounder | |
| SWIS | Satellite Weather Information Systems | NOAA |
| SWS | Solar Weather Seminar | NCAR, HAO |
| SYDNEY 2000 | Olympics in Sydney, Australia in the year 2000 | |
| SYNOPS | Synoptic Ocean Prediction Study | |
| SZOLD | skewed zeroth order logarithmic distribution function | |

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