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LIST OF ABBREVIATIONS AND ACRONYMS

Σ	sigma, absolute dispersion
ADF&G	Alaska Department of Fish and Game
ADNR	Alaska Department of Natural Resources
AK	Alaska
Al	aluminum
ANILCA	Alaska National Interest Lands Conservation Act
BLM	U.S. Bureau of Land Management
C	carbon
Ca	calcium
CAA	Clean Air Act
CAAA	Clean Air Act and its Amendments
Cd	cadmium
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	<i>Code of Federal Regulations</i>
Cl	chlorine
Cm	curium
Co	cobalt
CO ₂	carbon dioxide
Cu	copper
CWA	Clean Water Act
D	distance(s)
dBA	decibels A-weighted
DOD	U.S. Department of Defense
EA	Environmental Assessment(s)
EFH	Essential Fish Habitat
EIS	Environmental Impact Statement(s)
EM	electromagnetic
EPA	U.S. Environmental Protection Agency
ERD	Environmental Resources Document(s)
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FB	Fairbanks, Alaska
Fe	iron
FEIS	Final Environmental Impact Statement
FR	<i>Federal Register</i>
FY	fiscal year
GMU	Game Management Unit
GPS	global positioning system
GRN	Sondre Stromfjord, Greenland
GSFC	Goddard Space Flight Center
H	hydrogen
HANLC	high altitude noctilucent clouds

LIST OF ABBREVIATIONS AND ACRONYMS (*Continued*)

HFEF	high frequency electron flux
HMTA	Hazardous Material Transportation Act
HSWA	Hazardous and Solid Waste Act
IR	infrared
kg	kilogram(s)
km	kilometer(s)
kNm	kilo-Newton-meters
kPa	kilopascal(s)
KWAJ	Kwajalein, Marshall Islands
LC	launch complex(es)
Li	Lithium
LVI	launch vehicle impact
Mg	magnesium
MISTI	mesospheric ionization structure and turbulence investigation
mm	millimeter(s)
MMPA	Marine Mammals Protection Act
MOTR	Multi-Object Tracking Radar
MS	mass spectrometer
msl	mean sea level
N	nitrogen
NAAQS	National Ambient Air Quality Standards
NACA	National Advisory Committee for Aeronautics
NASA	National Aeronautics and Space Administration
NCA	National Conservation Area
NEPA	National Environmental Policy Act
NHPA	<i>National Historic Preservation Act</i>
NMFS	<i>National Marine Fisheries Service</i>
NO _x	oxides of nitrogen
NPS	National Park Service
NRA	National Recreation Area
NRHP	National Register of Historic Places
NSROC	NASA Sounding Rocket Operations Contract
NWR	National Wildlife Refuge
OSHA	Occupational Safety and Health Administration
OSSA	Office of Space Science and Applications
Pb	lead
PFRR	Poker Flat Research Range
pH	the negative logarithm of the effective hydrogen ion concentration in gram equivalents per liter, used in expressing both acidity and alkalinity
PM _n	particulate matter with an aerodynamic diameter less than or equal to <i>n</i> micrometers
psi	pounds per square inch

LIST OF ABBREVIATIONS AND ACRONYMS (*Continued*)

QE	quadrant elevation or launch angle
RCRA	Resource Conservation and Recovery Act
RNA	Research Natural Area
ROI	Region of Influence
RS	Radioactive source
RSO	Range Safety Officer
S	sulfur
S-T	stratosphere - troposphere
SEC, sec	second(s)
SEIS	Supplemental Environmental Impact Statement
SHPO	State Historic Preservation Office
SO	stratospheric ozone
Sr	strontium
SRP	Sounding Rockets Program
STS	Space Transportation System (Space Shuttle)
T	threatened
TLV	threshold limit values
TSCA	Toxic Substances Control Act
UAF	University of Alaska Fairbanks
U.S.	United States
U.S.C.	<i>United States Code</i>
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
VA	Virginia
VRM	Visual Resource Management
WFF	Wallops Flight Facility
WI	Wallops Island, Virginia
WSMR	White Sands Missile Range

COMMON METRIC/BRITISH SYSTEM EQUIVALENTS

Length

1 centimeter (cm) = 0.3937 inch	1 inch = 2.54 cm
1 centimeter = 0.0328 foot (ft)	1 foot = 30.48 cm
1 meter (m) = 3.2808 feet	1 ft = 0.3048 m
1 meter = 0.0006 mile (mi)	1 mi = 1609.3440 m
1 kilometer (km) = 0.6214 mile	1 mi = 1.6093 km
1 kilometer = 0.53996 nautical mile (nmi)	1 nmi = 1.8520 km
	1 mi = 0.87 nmi
	1 nmi = 1.15 mi

Area

1 square centimeter (cm ²) = 0.1550 square inch (in ²)	1 in ² = 6.4516 cm ²
1 square meter (m ²) = 10.7639 square feet (ft ²)	1 ft ² = 0.09290 m ²
1 square kilometer (km ²) = 0.3861 square mile (mi ²)	1 mi ² = 2.5900 km ²
1 hectare (ha) = 2.4710 acres (ac)	1 ac = 0.4047 ha
1 hectare (ha) = 10,000 square meters (m ²)	1 ft ² = 0.000022957 ac

Volume

1 cubic centimeter (cm ³) = 0.0610 cubic inch (in ³)	1 in ³ = 16.3871 cm ³
1 cubic meter (m ³) = 35.3147 cubic feet (ft ³)	1 ft ³ = 0.0283 m ³
1 cubic meter (m ³) = 1.308 cubic yards (yd ³)	1 yd ³ = 0.76455 m ³
1 cubic meter (m ³) = 0.000811 acre-ft	1233 m ³ = 1 acre-ft
1 liter (l) = 1.0567 quarts (qt)	1 qt = 0.9463264 l
1 liter = 0.2642 gallon (gal)	1 gal = 3.7845 l
1 kiloliter (kl) = 264.2 gal	1 gal = 0.0038 kl

Mass/Weight

1 gram (g) = 0.0353 ounce (oz)	1 oz = 28.3495 g
1 kilogram (kg) = 2.2046 pounds (lb)	1 lb = 0.4536 kg
1 metric ton (mt) = 1.1023 tons	1 ton = 0.9072 metric ton

Energy

1 joule = 0.0009 British thermal unit (BTU)	1 BTU = 1054.18 joule
1 joule = 0.2392 gram-calorie (g-cal)	1 g-cal = 4.1819 joule

Pressure

1 newton/square meter (N/m ²) = 0.0208 pound/square foot (psf)	1 psf = 48 N/m ²
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Force

1 newton (N) = 0.2248 pound-force (lbf)	1 lbf = 4.4478 N
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