

**SUGGESTED NSSI BASELINE GIS LAYER LIST**

Additions from GIS Professionals	Additions from November 2006 Subcommittee Meeting	Additions from Feb 2007 Meeting
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ISO Category	Category Description	Baseline Data Layer	Management Authority	Data Source	Owner
001 - Farming	Rearing of animals and/or cultivation of plants (agriculture, crops, livestock)	NA?	NA?		
002 - Biota	Flora and/or fauna in natural environments? (flora and fauna, ecology, wetlands, habitat)	Fish Habitat -Over wintering Terrestrial Mammals -polar bears -grizzly -caribou -musk-ox -moose Birds Invertebrates Marine Mammals Vegetation -Health -Exotic species Rare habitats Salt marshes NWI	(ADFG, USFWS, DNR Habitat Division, Arctic LTER, NSB)  FWS, USGS ADFG ADFG ADFG, FWS ADFG, FWS, NPS  FWS		
003 - Boundaries	Legal land descriptions (political and administrative boundaries)	Administrative - Ownership -Town/Villages - Boundaries - Withdrawals -Master Title Plats - OCS Grid -3 miles/economic zones/ others -OPD Grid - Game Management Units - Native Allotments - Lease Authorizations - ASRC Leases - Units Administrative Control - Use Restrictions -Special Management Zones/Areas	(DNR, BLM) (DNR, BLM) (DNR, BLM, NSB) (BLM) (BLM) (MMS) (DNR) (MMS) (ADFG) (BLM) (DNR, BLM, MMS) (ASRC) (DNR/Industry) (BLM/DNR/MMS/FWS) (BLM/DNR/MMS/FWS)		
004 - Climatology Meteorology Atmosphere	Processes and phenomena of the atmosphere	Climatology -Snowfall -snowcover/snow extent -snow depth -precipitation -Weather stations -Microwave Temperature Profiler -PRISM (program for integrated earth system modelling <a href="http://www.prism.enes.org">www.prism.enes.org</a> ) -Lightning	(USGS, NOAA, MMS, UAF, DOE) (NOAA) (NOAA, NSIDC, NRCS, NASA) (NSIDC, snow tell sites) (NOAA, USGS, Academic, USCOE) (DOE, ARM) (Oregon State) (BLM, ACRF)		

005 - Economy	Economic activities, conditions, and employment	-Need STG and user input-	
006 - Elevation	height above or below the earth's surface (altitude, bathymetry, dem, slope, derived products)	Digital Elevation Measurements Offshore Bathymetry Lake Bathymetry	(USGS) (NOAA) (NOAA, others)
007 - Environment	environmental resources, protection, and conservation (natural resources, pollution, impact assessment, monitoring, land analysis)	Hazmat Sites Water Quality Monitoring Sound/Noise - Accoustics Data Air Quality Environmental Contaminants Trash (barrels, airplane crash sites, etc.)	(DEC, BLM, JPO) (DEC, NSB) - ALWAS (NPS, NSB) (DEC, EPA, NSB) (AMAP, EPA, NSB)
008 - Geoscientific Information	information pertaining to the earth sciences (geology, minerals, earthquakes, soils, permafrost)	Minerals/ Mining/ Gravel Pits Top Hole/Bottom Hole (Active and abandoned) Subsurface geology (locatable and fluid minerals) Surface geology Glacial geology Active Layer Soils Permafrost Geomorphology (landforms) Petroleum and gas estimates Minerals	(DNR, BLM) (AOGCC) (USGS) (USGS) (BLM, Industry, USGS, NSF) (NSIDC, USGS, AGDC) (UAF) (DNR, BLM, MMS, USGS)
009 - Health	health, health services, human ecology, and safety (disease, illness, factors affecting health, hygiene, substance abuse)	Ground disturbing activities (downstream/wind impacts) OSHA Asthma, cancer, diabetes rates, etc.	(EPA, NSB) (TIGER ...)
010 - ImageryBaseMapsEarthCover	Remote Sensing		
010 200 - Base Maps	(annotations)	DRG - Scanned Topographic Maps DOQ	(USGS) (USGS)
010 201 - Earth Surface Land Cover	(land cover, topographic maps)	Fire Vegetation Vegetation Phrenology -Ecoregions/zones classification Wetlands Inventory	(BLM/DNR) (USGS) (USGS, FWS, TNC) (FWS)

010 XXX - Remote Sensing Derived Products

011 - Intelligence Military	military bases, structures, activities	Distant Early Warning-DEW line Military sites/bases	(DOD) (DOD)
012 - Inland Waters	inland water features, drainage systems (rivers, glaciers, lakes, dams, water quality)	Gauging Stations  Watersheds (HUC) Rivers / Lakes - Present/ historic Water Quality Navigable Waters	(USGS, BLM, Academia)  (USGS) (USGS, ADNR) (USGS, remote sensing derived) (USGS/ BLM/ DEC/ EPA/ Industry) (BLM, DNR, NOAA, USCOE)
013 - Location	positional information and services  (addresses, geodetic networks, place names)	Place Names  Geographic Coordinate Database - Combined Federal/State Control  - Geodetic/CORS - Image Registration	(USGS, NSB, Industry)  (BLM, DNR)  (NGS, Plate Boundary Observatory, UNAVCO) (NSB)
014 - Oceans	features and characteristics of salt water bodies (tides, tidal waves, coastal info, reefs)	Coastline  - Present and Historic - Several Scales Sea Ice Ocean Currents Ocean Wind Sea State Frontal Boundaries Ocean Chemistry Acoustics	(NOAA Coastal Services Center, BLM, MMS)  NGS, others)  (NSIDC) (NOAA) (NOAA) (NOAA) (NOAA) (NOAA) (NOAA) (NOAA)
015 - Planning Cadestre	info used for appropriate actions for future land use (land use maps, zoning maps, land ownership)	Mining claims  PLSS - Public Land Survey System Cabins & Camps Comprehensive management plan of NSB Title 19 regulations Oil and gas management plan Coastal management plans BLM Integrated Activity Plans	(MMS)  (BLM) (BLM, NSB) (NSB) (NSB) (NSB) (DNR) (BLM)
016 - Society	characteristics of society and culture (anthropology, archaeology, religion, demographics)	Native Linguistics Census archaeology Subsistence Maps	(Census, Commerce, ADEC, BIA)  (BAA, UAF) (Census) (NSB, NPS, BLM,DNR) (NPS, BLM, ADFG, FWS, Subsistence advisory panel)

017 - Structure	man-made construction (architecture, buildings, housing, shops, towers)	as-builts (CAD) - facilities and infrastructure Camps and Cabins	(Industry, DOT) (BLM,DNR,NSB)
018 - Transportation	means and aids for conveying persons and/or goods (roads, airports, nautical charts, trails)	Roads (with temporal attributes) - Ice Roads (Historical/Current) - Air Strips - TAPS/Feeders - Power lines Nautical Charts/Ports Trails and routes Rails Easements/ROW Culverts/bridges	(Census, ADOT, NSB, DNR, Industry) (Industry) (FAA) (JPO, Industry) (DoD, USGS) (NOAA) (NSB,BLM) (ADOT, USGS) (BLM,DNR) (Unit Operation, DNR, ADOT, USCOE, Coast Guard)
019 -	energy, water and waste systems, communications (hydroelectricity, water distribution, electrical)	Infrastructure Control - Communications -Cell Phone -Radio Towers	(Industry) (NSB Emergency Services) (FCC) (FCC)