

Deliverables Schedule: Terrestrial Landscape Patterns and Dynamics

National Park Service, Arctic Inventory and Monitoring Network

Background materials: <https://irma.nps.gov/DataStore/Reference/Profile/2211095>
2023-12-11

Table A1. Deliverables schedule for summary of satellite greenness data

Ident- ifier	Deliverable	Format	Schedule	Respon- sibility	Description
A1	Multi-year NDVI metrics	csv	Every 5 years (beginning 2017)	PI	Metrics for the long-term pooled NDVI data at 20-km grid points. Includes the NDVI value for “brown” non-snow surface that is used to compute annual start and end of the green season.
A2	Annual NDVI metrics	csv	Every 5 years (beginning 2017)	PI	Annual start and end of green season dates for the 20-km grid points.
A3	Summary report	Document file (pdf)	Every 5 years (beginning 2017)	PI	An NPS Natural Resource Report, Natural Resource Data Series report, or a peer-reviewed journal article

Table B1. Deliverables schedule for analysis of snow cover metrics

Ident- ifier	Deliverable	Format	Schedule	Respon- sibility	Description
B1	MODIS snow metrics	Raster GIS file	Annually, for the preceding year	Cooperator funded by NPS; or PI	Growing-season metrics derived from the daily by the method of Zhu and Lindsay (2013) and Lindsay (2015) ¹
B2	Summary report	Document file (pdf)	Every 5 years (beginning 2017)	PI	An NPS Natural Resource Report, Natural Resource Data Series report, or a peer-reviewed journal article

¹These files are currently stored and served by UAF GINA

Table C1. Deliverables schedule for phenology cameras

Ident- ifier	Deliverable	Format	Schedule	Respon- sibility	Description
C1	Phenology camera images	Photo files (jpg)	Annually, within a month of the return from the field visit	NPS climate scientists making annual maintenance visit	Five images per day for the preceding year from each ARCN phenology camera
C2	Phenology camera time-lapse videos	Video file (mp4)	Annually before the end of the calendar year	PI	Still images processed into a time-lapse video. Created annually for the preceding calendar year

C3	Phenological events	Data in SQL Server database	Every 5 years (beginning 2016)	PI	New data on the dates of selected phenological events, observed in photos from the phenology cameras, as described in SOP C2 part F.
C4	Summary report	Document file (pdf)	Every 5 years (beginning 2016)	PI	An NPS Natural Resource Report, Natural Resource Data Series report, or a peer-reviewed journal article.

Table D1. Deliverables schedule for systematic grid image analysis

Ident- ifier	Deliverable	Format	Schedule	Respon- sibility	Description
D1	Images	Photo files (jpg or RAW); or satellite images	Within a month of the return from the imaging flight; every 10 to 15 years beginning in 2008	PI contracts the photography flights, or acquires satellite images	High-resolution images (pixel size 1 m or less) that cover the plots on the systematic 20-km grid. In the future may be satellite images with license requirements that preclude public posting.
D2	Image georeferencing	World files	Within 6 months of image acquisition	PI	World files that locate the images within 2 m accuracy. These are stored with the image files. Procedure described in SOP D2. Future satellite images may be delivered with georeferencing and not require a separate deliverable.
D3	Data from image interpretation	Data in SQL Server database	Within 9 months of image acquisition	PI	Data on plot-level changes (SOP D3 part C). Data on subplot-level (37 cell) changes (SOP D3 part D).
D4	Summary report	Document file (pdf)	Within 1 year of image acquisition	PI	An NPS Natural Resource Report, Natural Resource Data Series report, or a peer-reviewed journal article.

Table E1. Deliverables schedule for analysis of surface water change by Landsat Imagery

Ident- ifier	Deliverable	Format	Schedule	Respon- sibility	Description
E1	Water cover raster by year	Geotiff image	Every 5 years beginning in 2013	PI	ARCN-wide annual water body rasters from the USGS DSWE product (SOP E3, part G)
E2	Water area by subsection/analysis zone summary table	Text or dbf format	Every 5 years beginning in 2013	PI	Zonal statistics data files of water area by subsection or lake analysis zone (SOP E3, part H.)
E3	Water by lake summary table	Text or dbf format	Every 5 years beginning in 2013	PI	Zonal statistics data files of water area by year for each water body (SOP E3, part I.)

E4	Summary report	Document file (pdf)	Every 5 years beginning in 2013	PI	Either an NPS Natural Resource Report or peer-reviewed journal article
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