Compilation of industry and NTGS geophysical data in the broader Pine Creek region, Northern Territory. Northern Territory Geological Survey, Digital Information Package 046.

Identification	
Abstract:	The Pine Creek Orogen hosts many high-grade gold, uranium and rare earth element deposits and mines, where the application of geophysical exploration has played a major role in their discovery. Statutory reporting of exploration activities, along with the submission of geophysical survey data provides a rich source of information. This Digital Information Package (DIP) has been compiled to assist the resource exploration industry by collating these and other geophysical datasets over the Pine Creek Orogen and broader region. The DIP contains a spatial index, grids and images of ground gravity, airborne magnetic and radiometric, and induced polarisation (IP) surveys. The DIP also contains a spatial index of Geoscience Australia's Woolner Granite and Rum Jungle TEMPEST AEM Survey. Regional merges of gravity, magnetic and radiometric data are available in this DIP, generated by collating regional government surveys with high-resolution industry surveys. The combined gravity dataset captures available digital gravity station data that has been reprocessed into Australian Absolute Gravity Datum 2007 (AAGD07) standard to create a consistent Bouguer anomaly value.
Product Type:	Geographic Dataset Grids and Images
Keywords:	ANZRC Fields of Research: Earth sciences Place: Australia, Northern Territory, Pine Creek Orogen Airborne magnetic data, airborne radiometric data, magnetic grids, radiometric grids, ground gravity data, ground gravity grids, induced polarisation data, airborne electromagnetics
Topic Category:	geoscientificInformation
Reference System:	GDA94 MGA Zone 52 (EPSG: 28352) or GDA94 MGA Zone 53 (EPSG: 28353). Please note that data is split across two MGA zones. For merged grids, data is provided in GDA94 MGA Zone 52.
Extents:	-10.78, -15, 129.03, 135
Publication Date:	March 2026

Contact for the resource	
Contact Organisation:	Northern Territory of Australia (Northern Territory Geological Survey)
Postal Address:	Department of Mining and Energy GPO Box 4550 Darwin NT 0801 Australia
Telephone:	+61 8 8999 6443
Email:	geoscience.info@nt.gov.au

NORTHERN TERRITORY GOVERNMENT

Data Quality and Status

Lineage:	Dataset collates published geophysical survey data from open file company reports and includes submitted industry surveys, extracted from legacy hardcopy reports and modern digital reports, along with regional government surveys (NTGS/GA).
Positional Accuracy:	Data is sourced from numerous industry submissions and NTGS acquired surveys, containing processed and reprocessed geophysical survey data. Surveys vary in vintage, quality and associated metadata, and positional accuracy is considered variable.
Spatial Resolution:	Variable
Attribute Accuracy:	Attributes are compiled from acquisition reports or company reports. Accuracy is dependent on the report quality and completeness.
Maintenance Information:	Not planned
Data Currency Start Date:	1950
Data Currency End Date:	2026
Status:	Complete

Legal Constraints

Distribution

Distribution Format:	ASEG GDF II, ESRI shape, ERMapper grid, GeoTIFF
Aggregate Dataset/Product:	Not applicable
Online Resource Linkage:	https://geoscience.nt.gov.au/gemis
Online Resource Description:	https://geoscience.nt.gov.au/gemis

Supplementary Information

Not applicable	
Metadata Date:	March 2026