

LUMP NT Metadata

(Based on ANZLIC Metadata Standards, version 2, February 2001)

Category	Element	Definition of Element
Dataset	Title	Land Use Mapping of the Northern Territory
Custodian	Custodian	Dept of Infrastructure, Planning and Environment NT (DIPE)
	Jurisdiction	Northern Territory
Description	Abstract	<p>This dataset contains land use classes for the Northern Territory. Land use was allocated in accordance with the "Australian Land Use and Management Classification (ALUMC Version 5)". Mapping was carried out in accordance with "Land Use Mapping at Catchment Scale: Principles, Procedures and Definitions (Edition 2)" (BRS,2002). Land use was obtained from local knowledge, aerial photographs, satellite imagery, ancillary datasets and fieldwork. The NT was mapped at three (3) scales, depending upon the intensity of land use and the resolution needed by likely clients of this dataset.</p> <p>The Peri-urban Intensive Agricultural and Urban Zones around Darwin, Katherine and Alice Springs were mapped at 1:25,000; the Northern Agricultural Zone mostly comprising the Katherine-Daly Region was mapped at 1:100,000; whilst the Pastoral Zone and the remainder of the Northern Territory was mapped at a scale of 1:250,000.</p> <p>For mapping of the Peri-urban Intensive Agricultural Zone two (2) additional land use code fields (Luc_2 and Luc_3) were used to record multiple land uses and attributed using ALUMC Version 5. A proportional value of the areal extent for each land use is included in a separate field. Water bodies (lakes, rivers, swamps, reservoirs and dams) and rivers (watercourse_a) from the Auslig Geodata Topo-250k Series 1& 2 were incorporated within the 1:25,000 and 1:100,000 scale mapping areas.</p>
	Search Word	Agriculture, Land Use Mapping, Land Use Classification, Land Use Maps, Land Management
	Geographic Extent Name	Northern Territory, Australia
	GEN Category	Northern Territory, Australia
	GEN Custodial Jurisdiction	Australia, Northern Territory
	GEN Name	Northern Territory, Australia
	Geographic Extent Polygon	Xmin = 129.001 Xmax = 137.999 Ymin = -25.999 Ymax = -10.999
	Geographic Bounding Box	Xmin = 129.001 Xmax = 137.999 Ymin = -25.999 Ymax = -10.999
	North Bounding Latitude	-10.999 deg
	South Bounding Latitude	-25.999 deg
	East Bounding Longitude	129.001 deg
	West Bounding Longitude	137.999 deg
Data Currency	Beginning date	1994
	Ending date	20 Oct 2002
Dataset Status	Progress	Completed
	Maintenance and Update Frequency	Unknown/irregular

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Access	Stored Data Format	DIGITAL Arc/Info (Version 8.2)
	Available Format Type	DIGITAL MapInfo (Version 7.0) Arc/Info (Version 8.2) NON DIGITAL Maps
	Access Constraint	Land use mapped should be regarded as a REPRESENTATION of land use/management only, and is best used at a regional level. No responsibility is accepted for use of this information. A data agreement may be required and a fee may be applicable. Digital data available for online access only within the Northern Territory Government contains (Land Administration Information System) LAIS information that is linked to the NT Cadastre.
Data Quality	Lineage	<p>A copy of the Northern Territory Digital Cadastre (dated 05Dec01) was obtained from NT Land Information System (NTLIS) as an Arc/Info coverage in GDA94. FME (Feature Manipulation Engine) 2002 was used by NTLIS to translate the original Microstation .dgn file to the Arc/Info coverage. Horizontal positional accuracy of the Arc/Info coverage was determined by 10 survey control points in the Darwin, Casuarina, Palmerston, Humpty Doo and Alice Springs areas – accuracy of the cadastre was within 0.25 secs of arc for all survey points.</p> <p>The dataset was split along longitude 132° east and reprojected into GDA94 MGA Zones 52 and 53. The MGA94-52 coverage was then clipped into eight (8) coverages for mapping. Six (6) coverages based on the Auslig 1:100,000 series topographic maps of Darwin (5073), Koolpinyah (5173), Mary River (5272), Fog Bay (4972), Bynoe (5072), Noonamah (5172) for mapping at 1:25,000. The Northern Agricultural Zone mostly comprising the Douglas Daly Basin was clipped from the MGA94-52 & 53 coverages to include all or part of the following Auslig 1:250,000 scale topographic map sheets – Katherine (SD53-09), Pine Creek (SD52-08), Cape Scott (SD52-07) & Fergusson River (SD52-12). The balance of the Territory was mapped as two (2) coverages at 1:250,000.</p> <p>The Peri-urban Intensive Agricultural Zones covering parts of the Katherine (5369), Manbulloo (5368) and Alice Springs (5659) topographic map sheets were not clipped from the larger covers.</p> <p>The latest available scanned digital aerial photographs were obtained for the Peri-urban Intensive Agricultural Zones from NTLIS. These were ortho-rectified using the NT cadastre and a generated DEM, then mosaiced in ER Mapper 6.2. RMS errors were less than 5m. Throughout the project area the Australian Greenhouse Office Year 2000 mosaic of LandSat 7 ETM imagery was utilised where aerial photography was not available. Some areas of the Peri-urban Intensive Agricultural Zone and Northern Agricultural Zone were mapped using fieldwork.</p> <p>Attribute fields were populated using land use data obtained from, image interpretation, fieldwork, local/expert knowledge and other ancillary digital datasets.</p> <p>Roads and railways were attributed from the cadastre. Roads and coastal rivers are open polygons in the NT cadastre and were closed off by the project team.</p> <p>Conservation areas were attributed using the cadastre and PWCNT maps. Water bodies were attributed from the Auslig Geodata Topo-250k Series 1& 2 that was unioned with the 1:25,000 and 1:100,000 scale mapping. Urban areas were mapped from the cadastre and NT Valuer-General data. Indigenous land use was attributed from the cadastre.</p> <p>Grazing was attributed using cadastre, imagery and local knowledge. During the verification, remapping and validation phases of the project, draft maps were assessed by Northern Territory Government personnel</p>

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		with local knowledge of the Katherine, Darwin and Alice Springs regions who had not been involved in the original mapping. On verification the individually mapped coverages were unioned in Arc/Info 8.2 and reprojected in GDA94 geographics. All attribution was undertaken in accordance with the Australian Land Use and Management Classification (Version 5), however two additional classes were added to satisfy the conditions within the Northern Territory. These were 1.3.5 "NT rural" for rural living on blocks predominantly covered by remnant native cover (<90%) with no agricultural development and 4.4.8 "Cleared" for areas cleared in preparation for horticulture.
	Positional Accuracy	NT Cadastre: Horizontal accuracy for urban and peri-urban zone +/- 1 to 2m, Pastoral zone +/- 1000m. (Source: Northern Territory Spatial Data Directory metadata for the Digital Cadastral Database of the Northern Territory). Positional accuracy was checked against "Survey Control Points" supplied NTLIS (See 'Lineage' above). Geodata Topo-250k Series 1 & 2: Horizontal accuracy +/- 300m (Source: Geoscience Australia website)
	Attribute Accuracy	In accordance with "Land Use Mapping at Catchment Scale: Principles, Procedures and Definitions (Edition 2)" (BRS,2002), overall attribute accuracy is > 80%.
	Logical Consistency	Arc/Info 8.2 used to check for non-labelled polygons. The dataset is topologically correct.
	Completeness	Complete
Contact Information	Contact Organisation	Dept of Infrastructure, Planning and Environment (DIPE)
	Contact Position	Principal Scientist Natural Systems Division
	Mail Address	PO Box 30
	Locality	Palmerston
	State	NT
	Country	Australia
	Postcode	0831
	Telephone	08 8999 4579
	Facsimile	08 8999 3667
	Electronic Mail Address	Dave.howe@nt.gov.au
Metadata Date	Metadata Date	02 January 2003
Additional Metadata	Additional Metadata	For further information consult the NT Spatial Data Directory (NTSDD) and Geoscience Australia websites.