Concept Plan CF 2018-075

Spatial Data Management

Remote Sensing and Spatial Analysis

Project Core Team

Supervising Scientist	Katherine Zdunic
Data Custodian	Katherine Zdunic
Site Custodian	

Project status as of July 17, 2018, 5:34 p.m.

Update requested

Document endorsements and approvals as of July 17, 2018, 5:34 p.m.

Project Team	granted
Program Leader	granted
Directorate	granted

Spatial Data Management

Biodiversity and Conservation Science Program

Remote Sensing and Spatial Analysis

Departmental Service

Service 5: Conserving Habitats, Species and Ecological Communities

Aims

To identify and mange fundamental datasets created internally and externally that have value to the department and has multiple uses.

To collate, clean, metadata final spatial datasets developed by science and science collaborations and migrate it into GIS Corporate Data.

Expected outcome

- Support the department's need for quality and current data to the regions and to all departmental staff for management, planning, reporting, field work, operations, policy and research).
- Store imagery and facilitate discoverability by maintain imagery and terrain catalogues
- Maintain scripts and functions to download data sources for satellites imagery and migration to storage infrastructure with OIM and Pawsey.
- Identify geographical or temporal gaps in aerial photography or high resolution satellite imagery data and lodge requests with the State Government Capture WA program. Use Capture WA to lodge requests for LiDAR or bathymetry data required for Departmental purposes.

Strategic context

- Datasets are updated to Corporate Data and made accessible to all departmental staff for management, planning, reporting, field work, operations, policy and research).
- Providing essential support to department staff, to ensure that appropriate spatial data is captured/purchased that will: a) meet the requirements of the targeted project, but also b) to ensure that the spatial data is suitable for future departmental work.
- Rivers and Estuaries Branch are using the updated bathymetry for monitoring and as an input into hydrodynamic elements of the Swan Canning Estuary Response Model.
- Kimberley Marine Park coordinators are now able to access the latest marine science research from WAMSI to support management and monitoring for existing Kimberley Marine Parks and the current marine park planning process for the proposed Buccaneer Archipelago.
- Defining the coastline for the North Kimberley Marine Park, more accurately is integral to monitoring mangrove and other conservation assets in marine parks, and to provide a good basis for marine park mapping and operational management.

Expected collaborations

- To coordinate state capture of imagery and LIDAR through the State Government Capture WA program and the WALIS Marine Group, Landgate.
- Ongoing collaborations with Landgate and Pawsey to download calibrate and store the Landsat imagery archive as a state resource.
- Any fundamental dataset createdor acquired and prepared to a corporate standard must be migrated to Corporate Data in collaboration with the Spatial Library section from OIM.
- Collabroation with to Geoscience Australia to access the Datacube Landsat archive.

Proposed period of the project

None – None

Staff time allocation

Role	Year 1	Year 2	Year 3
Scientist Technical Volunteer Collaborator			

Indicative operating budget

Source	Year 1	Year 2	Year 3
Consolidated Funds (DBCA) External Funding			