

METADATA REPORT

| DATA IDENTIFICATION: | |
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| Title | NBA2018_Estuarine_ThreatStatus_ProtectionLevel_Condition_2018 |
| Description (detailed) | This layer includes the threat status, protection level and condition of the Estuarine Ecosystems 2018 assessed for the National Biodiversity Assessment 2018 |
| Purpose | To delineate the physical and biological processes and habitats necessary for estuarine function and health based on their historical extent and Estuarine Ecosystem Types at the landscape scale. |
| Status | Estuary Ecosystem Map 2018, version used in the 2018 National Biodiversity Assessment |
| Maintenance and update frequency | This version will be updated periodically as new data emerges. |
| Topic category | Ecosystem Classification and mapping |
| Lineage | This version of the estuarine ecosystem map is an improvement on previous versions that were based on the 1:10 000 scale topographical maps 5m contour. The Estuary Classification is an update of the Whitfield (1992) classification scheme. This version incorporates biogeographical zonation and introduces new types. |
| Citation | Van Niekerk, L., Adams, J.B., Fernandes, M., Harris, L., Lamberth, S.J., MacKay, CF., Petersen, C., Ramjukhad, C.-L., Riddin, T., Van Deventer, H. & Weerts, S.P., 2019, ' Chapter 4: Extending the Estuary Functional Zone to include key habitats and processes', South African National Biodiversity Assessment 2018: Technical Report. Volume 3: Estuarine Realm. South African National Biodiversity Institute, Pretoria. Report Number: SANBI/NAT/NBA2018/2019/Vol3/A Please see NBA 2018 Technical Report Volume 3: Estuarine Realm, http://hdl.handle.net/20.500.12143/6373 |
| Keywords | Estuary, estuarine functional zone, map, classification, ecosystem type. |

| ORIGINATOR OF THE DATASET: | |
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| Role | Lara van Niekerk is the scientific co-ordinator of data collected for the National Estuary Map and assessment. |
| Funders | Council of Scientific and Industrial Research and South African National Biodiversity Institute |

AUTHOR OF THE METADATA:

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| Role | Author; Custodian; Distributor; Owner; Point of contact; Processor; User. |

RESOURCE CONSTRAINTS:

| | |
|---------------------------|---|
| Access constraints | Copyright holder: South African National Biodiversity Institute |
| Use constraints | This data may not be reproduced by any means, nor redistributed via web site or ftp site, without prior permission. Whilst every effort has been made to ensure the accuracy of data, users are advised to use the data and conclusions drawn from its use with caution. Users noting errors and omissions are requested to notify Lara van Niekerk to improve data accuracy. These data are not for resale or replicating. This digital version is in the public domain requiring only the conventional acknowledgement of source in publications and reports. |
| Other restrictions | APPROPRIATE USE OF THIS DATASET: The Threat status and Ecosystem Protection level statistics must be interpreted with an understanding of the approach and rationale described in the National Biodiversity Assessment 2018 Estuarine technical documents and Synthesis report. |

SPATIAL RESOLUTION:

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|---------------------------------------|--|
| Spatial representation type | Geodatabase, Shapefile, Text, Table. |
| Equivalent scale - Denominator | Various (See technical documents) 1:3000 to 1:50 000 |

COORDINATE REFERENCE SYSTEM: Custom

| | |
|--|--|
| Projected/Geographic coordinate | PROJCS["AEA_RSA_WGS84",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Albers"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",25.0],PARAMETER["Standard_Parallel_1",-24.0],PARAMETER["Standard_Parallel_2",- |
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| nate system | 33.0],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0]] |
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| TEMPORAL EXTENT (time period covered by the content of the dataset): | |
| Temporal extent - Begin date | 2014 |

| | |
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| ONLINE RESOURCE (additional resources available online): | |
| Description | <p>The National Biodiversity Assessment 2018 Technical Report Volume 3: Estuarine Realm is an essential resource to understand how these statistics were calculated. The document includes are description of the approach used, important deviation from previous assessments and vital information such as which input datasets were used.</p> <p>Van Niekerk, L., Adams, J.B., Lamberth, S.J., MacKay, F., Taljaard, S., Turpie, J.K., Weerts S. & Raimondo, D.C., 2019 (eds). South African National Biodiversity Assessment 2018: Technical Report. Volume 3: Estuarine Realm. CSIR report number CSIR/SPLA/EM/EXP/2019/0062/A. South African National Biodiversity Institute, Pretoria. Report Number: SANBI/NAT/NBA2018/2019/Vol3/A.</p> |
| Linkage | <p>Full details of the methodology can be found in the NBA 2018 Technical Report Volume 3: access here: http://hdl.handle.net/20.500.12143/6373</p> |

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|---------------------------|----------------------|
| LEGEND PROPERTIES: | |
| Classification | See attribute fields |

| | |
|---------------------------------|--|
| DETAILED NOTES: | |
| Supplemental information | <p>Van Niekerk, L., Adams, J.B., Fernandes, M., Harris, L., Lamberth, S.J., MacKay, C.F., Petersen, C., Ramjukhad, C.-L., Riddin, T., Van Deventer, H. & Weerts, S.P., 2019a, 'Chapter 4: Extending the Estuary Functional Zone to include key habitats and processes', South African National Biodiversity Assessment 2018: Technical Report. Volume 3: Estuarine Realm. South African National Biodiversity Institute, Pretoria. Report Number: SANBI/NAT/NBA2018/2019/Vol3/A</p> <p>Van Niekerk, L., Adams, J.B., James, N., Lamberth, S.J., MacKay, C.F., Turpie, J.K., Rajkaran, A., Weerts, S.P. & Whitfield, A.K., 2019b, 'Chapter 3: A new Ecosystem Classification for South African estuaries' in South African National Biodiversity Assessment 2018: Technical Report. Volume 3: Estuarine Realm.</p> <p>South African National Biodiversity Institute, Pretoria. Report Number: SANBI/NAT/NBA2018/2019/Vol3/A</p> |

The attribute field data can also be provided as a MS Excel spreadsheet and uploaded as an online resource.

| ATTRIBUTE FIELDS | | |
|-------------------------|--------------------------------|---|
| Field Name | Full name | Description |
| OBJECTID | Object Identification | Internal feature number. |
| Shape | Shape | Feature geometry. |
| EstuaryID | Estuary identification | Unique code of individual estuaries in 2018 |
| Estuary_Name | Map code 2018 | Name of individual estuaries in 2018 |
| EcosystemType_Primary | Name of Primary Ecosystem Type | Name of the Estuarine Ecosystem Type. |
| BroadGroup | Broad Group | Name of the Broad Group indicating whether an ecosystem is classified as an Estuary or a type of Micro-System (in this layer only micro-estuaries are mapped) |
| Bioregion | Bioregions | This is a level in the classification system that describes the region in which the ecosystem type is nested. |
| EFZ | Estuarine Functional Zone | Indicated that the polygon is part of the Estuarine Functional Zone. |
| PolygonColour_a | Polygon Colour | This is the field that the layer file uses to create the colours for each ecosystem |
| EcosystemType_Secondary | Ecosystem Type Secondary | This is the name of the polygon as it is classified in other realm maps. |
| COND | Condition | Indicates the condition of the Estuary in the following categories: |
| Priority | Priority zone | Indicates priority zone class for each estuary |
| EPL | Ecosystem Protection Level | Protection level (South African indicator) (tech report available) (WP Well Protected, MP Moderately Protected, PP Poorly Protected, NP Not Protected), computed using PA layer developed for NBA2018 |
| ETS | Ecosystem Threat Status | Final result using highest RLE category (CR Critically Endangered, EN Endangered, VU Vulnerable, NT Near Threatened (I am lumping this with LC for now), LC Least concern, overall RLE result |
| Shape_Length | Shape Length | Automatically generated geodatabase value indicating the length of the polygon in meters |
| Shape_Area | Shape Area | Automatically generated geodatabase value indicating the length of the polygon in square meters |

The descriptions of the metadata fields are provided and copyright of Open Source Geospatial Foundation. Available at https://geonetwork-opensource.org/manuals/2.10.4/eng/users/appendix/glossary_of_metadata/index.html