



South African National Biodiversity Institute

GIS METADATA : DETAILED REPORT

FILE NAME: Fishsanc_All_Spp.shp	
Full Path	
Description (detailed)	This shape file provides a list of all threatened and near-threatened fish species within fish sanctuaries. Fish species with an IUCN status of Critically Endangered or Endangered are identified in this layer. Expert opinion was also used to update the IUCN status for some fish species. Expert opinion status (based initially on IUCN status) is provided in this shapefile for each species and was used to distinguish between sub-quaternary catchments that contain at least one population of Critically Endangered/Endangered versus those containing at least one population of Vulnerable, Near-threatened species.
Copyright Holder	None
Data Origin	CSIR
Capture Source	CSIR
Scale Digitised at	Sub-quaternary catchments
Date Captured	July 2011
Data Copyright	No
To be distributed	Yes

DATA INFORMATION AND METADATA INFORMATION	
Owner Organisation	CSIR
Contact Person	Jeanne Nel
Position of Contact Person	Principal Researcher
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LEGEND PROPERTIES	
Legend Title	Threatened or near threatened fish species in each sub-quaternary catchment
Feature Type	Polygon
Scale Parameters	

PROJECTION	
Projection Name	DD
Central Meridian	
Upper Parallel	
Lower Parallel	

DATUM	
Name	WGS84
Semi Major Axis	0
Semi Minor Axis	0
Inverse Flattening	0

DETAILED NOTES
<p>Purpose:</p> <p>This layer supports the fish sanctuaries layer by providing a list of all threatened and near-threatened fish species within fish sanctuaries. The aim of identifying these sanctuaries is to keep further freshwater species from becoming threatened and to prevent those fish species that are already threatened from becoming extinct.</p> <p>Methodology:</p> <p>For sub-quaternary catchments containing more than 1 species with conflicting fish sanctuary classes the maximum protection level was assigned, with highest levels of protection afforded to Fish Sanctuary, then Fish Corridors, and lastly Upstream Management Areas.</p> <p>Fish species with an IUCN status of Critically Endangered or Endangered are identified in this layer. Expert opinion was also used to update the IUCN status for some fish species.</p> <p>Expert opinion status (based initially on IUCN status) is provided in this shapefile for each species and was used to distinguish between sub-quaternary catchments that contain at least one population of Critically Endangered/Endangered versus those containing at least one population of Vulnerable, Near-threatened species. These are shown respectively as a red or black fish on the FEPA maps which provided in the NFEPA Atlas (available from the Water Research Commission,(reference below) or in electronic format from the SANBI BGIS website).</p> <p>Available documentation:</p> <p>Nel, J.L., Murray, K.M., Maherry, A.M., Petersen, C.P., Roux, D.J., Driver, A., Hill, L., Van Deventer, H., Funke, N., Swartz, E.R., Smith-Adao, L.B., Mbona, N., Downsborough, L. and Nienaber, S. (2011). Technical Report for the National Freshwater Ecosystem Priority Areas project. WRC Report No. K5/1801.</p> <p>http://www.iucnredlist.org/initiatives/freshwater</p> <p>http://bgis.sanbi.org/</p>

ATTRIBUTE FIELDS		
Field Name	Description	Alias
SQ4HASH	PLANNING UNIT IDENTIFIER. ALL SUB-QUATERNARIES HAVE A UNIQUE IDENTIFIER. THIS CORRESPONDS TO UNIT_ID ON THE OTHER NFEPA SHAPEFILES.	

SP*****	THE SPECIES CODE FOR EACH THREATENED OR NEAR-THREATENED FISH SPECIES. THE SPECIES NAMES CORRESPONDING TO THE CODE ARE PROVIDED IN THE LOOKUP TABLE BELOW. SPECIES CODE = 2 INDICATES THAT THE SPECIES IS CRITICALLY ENDANGERED OR ENDANGERED, 1 INDICATES THAT THE SPECIES IS CONSIDERED VULNERABLE OR NEAR THREATENED); 0 INDICATES ABSENCE OF KNOWN THREATENED OR NEAR-THREATENED FISH SPECIES.	
NOFISSANC	THE TOTAL NUMBER OF THREATENED AND NEAR-THREATENED FISH SPECIES WITHIN THAT SUB-QUATERNARY CATCHMENT	
STATUS	THE OVERALL STATUS USED TO DISTINGUISH BETWEEN SUB-QUATERNARY CATCHMENTS THAT CONTAIN AT LEAST ONE CRITICALLY ENDANGERED/ENDANGERED SPECIES VERSUS THOSE CONTAINING AT LEAST ONE POPULATION OF VULNERABLE OR NEAR-THREATENED SPECIES. STATUS = 2 INDICATES THAT AT LEAST ONE OF THE FISH SPECIES FOUND IN THE SUB-QUATERNARY CATCHMENT IS CRITICALLY ENDANGERED OR ENDANGERED PRESENCE, 1 AT LEAST ONE IS VULNERABLE OR NEAR THREATENED, 0 INDICATES THAT NO THREATENED OR NEAR-THREATENED POPULATIONS ARE KNOWN TO OCCUR IN THE SUB-QUATERNARY CATCHMENT	

LOOKUP-TABLE for SPECIES CODES

SppCode	Species	Status
71	Barbus amatolicus	VU
72	Barbus andrewi (Witvis)	EN
74	Barbus anoplus	CR/EN
89	Barbus brevipinnis	NT
90	Barbus calidus	VU
100	Barbus erubescens	CE
112	Barbus hospes	LC
116	Barbus lineomaculatus	VU
128	Barbus motebensis	VU
133	Barbus sp. 'Banhine'	CE
149	Barbus serra (Clanwilliam sawfin)	EN
152	Barbus treurensis	EN
153	Barbus trevelyani	EN
179	Labeo umbratus	LC
183	Labeobarbus capensis	VU
195	Opsaridium peringueyi	LC
199	Pseudobarbus asper	EN
201	Pseudoburgus sp. Burchelli Burgi (Pseudobarbus burgi)	EN

SppCode	Species	Status
202	Pseudobarbus Verlorevlei	CE
213	Varicorhinus nelspruitensis	NT
248	Hydrocynus vittatus	LC
263	Austroglanis barnardi	EN
264	Austroglanis gilli	VU
265	Austroglanis Sclateri	LC
268	Amphilius natalensis	DD
302	Clarias Theodora	LC
311	Chiloglanis bifurcus	EN
336	Galaxias zebra (Galaxias zebratus)	VU
360	Chetia brevis	EN
374	Oreochromis mossambicus	NT
393	Serranochromis meridianus	EN
408	Sandelia bainsii	EN
409	Sandelia capensis	DD
435	Silhouettea sibaya	EN
1000	Labeo seeberi	EN
1001	Pseudobarbus afer	EN
1002	Pseudobarbus afer cf Gamtoos	EN
1003	Pseudobarbus Krom	CE
1004	Pseudobarbus afer cf. Forest	NT
1005	Pseudobarbus tenuis	NT
1006	Pseudobarbus Keurbooms	EN
1007	Pseudobarbus burchelli cf. Breede	NT
1008	Pseudobarbus sp. 'buchelli cf. 'Heuningnes' sp	CE
1009	Pseudobarbus burchelli	CE
1012	Pseudobarbus phlegeton	EN
1013	Pseudobarbus phlegeton cf Doring	CE
1014	Pseudobarbus quathlambe	EN
1015	Pseudobarbus cf mohale	CE
1019	Galaxias breede slow (Galaxias sp. 'zebratus cf. Breede')	EN
1020	Galaxias Gouritz slow (Galaxias sp. 'zebratus cf. Gourits')	CE
1021	Galaxias Heuningnes slow (Galaxias sp. 'zebratus cf. Heuningnes')	EN
1022	Galaxias mollus (Galaxias sp. 'zebratus cf. Mollus')	NT
1023	Galaxias olifants (Galaxias sp. 'zebratus cf. Olifants')	VU
1024	Galaxias slender	CE
1025	Galaxias Twee (Galaxias sp. 'zebratus cf. Twee')	CE
1026	Galaxias uilkraals slow (Galaxias sp. 'zebratus cf. Uilkraals')	EN
1027	Galaxias Kouga (Galaxias sp. 'zebratus cf. Kouga')	EN
1028	Galaxias slim (Galaxias sp. 'zebratus cf. slim')	DD/LC

SppCode	Species	Status
1029	Amphilius sp. 'natalensis cf. Treur'	DD
1030	Amphilius sp. 'natalensis cf. Kneria'	DD
1031	Barbus pallidus North (Barbus sp. 'pallidus cf. north')	VU
2003	Barbus sp. 'Ohrigstad'	DD
2010	Barbus sp. 'Waterberg'	NT
2051	Kneria sp. 'South Africa'	CE
136S	Barbus pallidus South	DD
268a	Amphilius natalensis - Mpumalanga form	DD
268b	Amphilius natalensis - KZN	DD