

Metadata

A 'fuzzy clustering' approach to conceptual confusion: how to classify natural ecological associations

Dario Fiorentino, Roland Pesch, Carmen-Pia Guenther, Lars Gutow, Jan Holstein, Jennifer Dannheim, Brigitte Ebbe, Tim Bildstein, Winfried Schroeder, Bastian Schuchardt, Thomas Brey, Karen Helen Wiltshire.

Content

The present document contains information of the 5 GeoTIFF (georeferenced information embedded within an image) resulted from the modelling exercise as presented in the main manuscript.

GeoTIFF are named as following: "4communities.tif", "association1.tif", "association2.tif", "association3.tif", "association4.tif".

4communities

Each pixel is labelled with the community having the highest probability of occurrence.

Band 1:

distribution of benthic communities using crisp borders

Values: 1, 2, 3, 4

Coding:

1 = *Amphiura-filiformis*

2 = *Bathyporeia-Tellina*

3 = *Goniadella-Spisula*

4 = *Phoronis*

Dimensions

X: 390 Y: 380 Bands: 1

Origin

110000,6.28e+06

Pixel Size

1000,-1000

No Data Value

-999

Data Type

Float32 - Thirty two bit floating point

Spatial Reference System

WGS84 UTM 32 N

EPSG

32632

Proj4js format

+proj=utm +zone=32 +datum=WGS84 +units=m +no_defs

Unit

meters

association1

Probability distribution of Amphiura-filiformis.

Band 1:

distribution of Amphiura-filiformis

Statistics

maximum=1

mean=0.21553287038985

minimum=0

stddev= 0.2425990412384

Dimensions

X: 390 Y: 380 Bands: 1

Origin

110000,6.28e+06

Pixel Size

1000,-1000

No Data Value

-999

Data Type

Float32 - Thirty two bit floating point

Spatial Reference System

WGS84 UTM 32 N

EPSG

32632

Proj4js format

+proj=utm +zone=32 +datum=WGS84 +units=m +no_defs

Unit

meters

association2

Probability distribution of Bathyporeia-Tellina.

Band 1:

distribution of Bathyporeia-Tellina

Statistics

maximum=1

mean=0.28935395303622

minimum=0

stddev= 0.19296155861825

Dimensions

X: 390 Y: 380 Bands: 1

Origin

110000,6.28e+06

Pixel Size

1000,-1000

No Data Value

-999

Data Type

Float32 - Thirty two bit floating point

Spatial Reference System

WGS84 UTM 32 N

EPSG

32632

Proj4js format

+proj=utm +zone=32 +datum=WGS84 +units=m +no_defs

Unit

meters

association3

Probability distribution of Goniadella-Spisula.

Band 1:

distribution of Goniadella-Spisula

Statistics

maximum=1

mean=0.076832101486979

minimum=0

stddev= 0.095997250866245

Dimensions

X: 390 Y: 380 Bands: 1

Origin

110000,6.28e+06

Pixel Size

1000,-1000

No Data Value

-999

Data Type

Float32 - Thirty two bit floating point

Spatial Reference System

WGS84 UTM 32 N

EPSG

32632

Proj4js format

+proj=utm +zone=32 +datum=WGS84 +units=m +no_defs

Unit

meters

association4

Probability distribution of Phoronis.

Band 1:

distribution of Phoronis

Statistics

maximum=1

mean=0.076832101486979

minimum=0

stddev= 0.095997250866245

Dimensions

X: 390 Y: 380 Bands: 1

Origin

110000,6.28e+06

Pixel Size

1000,-1000

No Data Value

-999

Data Type

Float32 - Thirty two bit floating point

Spatial Reference System

WGS84 UTM 32 N

EPSG

32632

Proj4js format

+proj=utm +zone=32 +datum=WGS84 +units=m +no_defs

Unit

meters