Data from: Surface-water dynamics and land use influence landscape connectivity across a major dryland region, Bishop-Taylor, Robbi; Tulbure, Mirela G; Broich, Mark

Graph theory local connectivity metrics data for two dispersal distances and each seasonal time-step in the 1987-2011 Landsat-derived surface-water time series (Tulbure et al. 2016). Betweenness and degree centrality results were used to assess the distribution of important "stepping-stone" and "hub" habitats across Australia's Murray-Darling Basin.

Data example:

season_id	date	cutoff	id	X	y	metric	value
1987_autumn	1987.29	0.53	19	407680	-3877980	betweenness	0
1987_autumn	1987.29	0.53	3	405040	-3870120	betweenness	0
1987_autumn	1987.29	0.53	26	408040	-3876900	betweenness	0
1987_autumn	1987.29	0.53	147	414040	-3863760	betweenness	0
1987_autumn	1987.29	0.53	101	412420	-3858975	betweenness	0
1987_autumn	1987.29	0.53	52	410800	-3865380	betweenness	0

Metadata:

Field	Description				
season_id	unique name for each of the 99 seasonal timesteps ('year'_'season')				
date	decimal version of season_id ('year'.04 for summer, 'year'.29 for autumn, 'year'.54 for winter, 'year'.79 for spring)				
cutoff	dispersal distance cutoff (in circuit theory resistance distances)				
id	unique ID code for each unique habitat patch in study area				
x	x-coordinate of habitat patch centroid for plotting purposes (GRS 1980 IUGG 1980 Albers)				
y	y-coordinate of habitat patch centroid for plotting purposes (GRS 1980 IUGG 1980 Albers)				
metric	betweenness centrality (BC) or degree centrality (DC)				
value	metric value of habitat patch for given seasonal time-step				

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