



Supplement of

What is a drought-to-flood transition? Pitfalls and recommendations for defining consecutive hydrological extreme events

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Table S1. Further information about case study events.

Case Study	Case study event drivers	Streamflow gauge	Data source	Catchment area
Australia: Daintree River	Heavy rain and high tides in December (1) followed by an active monsoon trough and slow-moving low pressure system [F](2, 3)	WMIP Gauge ID: 108002A	Streamflow and catchment outline (4)	913 km^2
California, USA: Ventura River	Atmospheric rivers [F] (5), precipitation deficit [D] (5)	USGS Gauge ID: 11118500	Streamflow (6) and catchment outline (7)	486 km^2
Chile: Rio Colorado	Strong La Niña year [D] (8)	Camels Chile Gauge ID: 7112001	Streamflow and catchment outline (9)	878 km^2
England: River Aire	Persistent blocked weather patterns [D], jet stream [F] (10)	NRFA Gauge ID: 27080	Streamflow and catchment outline (11)	862 km^2
Italy: River Savio (Tributary of the Po)	Below average snowfall (D), persistent anomalous anticyclonic circulation (D), Storm Minerva (F)	Arpae Emilia Romagna Gauge ID: Savio at San Carlo	Streamflow (12) and catchment outline (13)	580 km^2
Norway: Ulvåa River (Tributary of the Glomma)	Hot and wet October weather resulted in early snow melt and heavy precipitation [F] (14)	NVE Gauge ID: 103.1.0	Streamflow and catchment outline (15)	432 km^2
Switzerland: River Emme		BAFU Gauge ID: 2409	Streamflow and catchment outline (16)	124 km^2
Texas, USA: Llano River	Heavy convective rainstorm [F] (17-18), hot and dry summer weather [D] (19)	USGS Gauge ID: 8151500	Streamflow (6) and catchment outline (7)	10899 km^2

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