## Key to data file

Field	Unit of measure	Explanation
ID	_	Unique identifier of each case study
name	_	River-system name
latitude	Decimal degrees	Latitude of a point near the centre of the study area
longitude	Decimal degrees	Longitude of a point near the centre of the study area
avulsion_data	[class]	Indicates avulsion-event data availability and quality (high vs low)
channel_data	[class]	Indicates channel-thread data availability and quality (high vs low)
lobe_data	[class]	Indicates delta-lobe data availability and quality (high vs low)
data_sources	[text]	Reference to literature sources for data on avulsion events, channel threads, and delta lobes (see reference list in file named 'references')
n_avulsions	_	Number of avulsion events recorded for the studied time interval; may represent a complete record
n_avuls_min	-	Number of avulsion events recorded for the studied time interval; thought to represent an underestimate of the true number
time_a_kyr	kyr	Duration of time window over which avulsion events are counted
n_channels	-	Number of channel threads counted for the studied time interval; may represent partial or complete record
time_c_kyr	kyr	Duration of time window over which channel threads are counted
n_lobes	_	Number of delta lobes counted for the studied time interval; may represent partial or complete record
time_l_kyr	kyr	Duration of time window over which dellta lobes are counted
rate_a_high	kyr <sup>-1</sup>	Number of avulsion events per unit time, based on avulsion records thought to be more complete
rate_a_any	kyr <sup>-1</sup>	Number of avulsion events per unit time, based on all avulsion records
rate_c	kyr <sup>-1</sup>	Number of channel threads per unit time
rate_l	kyr <sup>-1</sup>	Number of delta lobes per unit time

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norm_rate_a_high	kyr <sup>-1</sup> ·km <sup>-2</sup>	Number of avulsion events per unit time, based on avulsion records thought to be more complete, normalized by study area size and river number
norm_rate_a_any	kyr <sup>-1</sup> ·km <sup>-2</sup>	Number of avulsion events per unit time, based on all avulsion records, normalized by study area size and river number (avulsion-even density)
norm_rate_c	kyr <sup>-1</sup> ·km <sup>-2</sup>	Number of channel threads per unit time, normalized by study area size and river number (channel-thread density)
norm_rate_l	kyr <sup>-1</sup> ·km <sup>-2</sup>	Number of delta lobes per unit time, normalized by study area size and river number (delta-lobe density)
study_area	km <sup>2</sup>	Size of study area
study_area_a	km <sup>2</sup>	Size of study area considered for computing normalized avulsion-event density, where this refers to an area that differs from that reported as 'study_area'
study_area_c	km <sup>2</sup>	Size of study area considered for computing normalized channel-thread density, where this refers to an area that differs from that reported as 'study_area'
study_area_l	km <sup>2</sup>	Size of study area considered for computing normalized delta- lobe density, where this refers to an area that differs from that reported as 'study_area'
progr_rate	m·yr <sup>-1</sup>	Shoreline progradation rate, averaged through time and alongshore over the study area
progr_rate_time	kyr	Length of time over which 'progr_rate_time' is computed
suspended_load	Mt·yr <sup>-1</sup>	Total suspended sediment load of the river near upstream end of the study area
drainage_area	km <sup>2</sup>	River drainage-basin area
avg_gradient	dimensionless (m·m <sup>-1</sup> )	Average longitudinal topographic gradient of the study area, from the upstream end of the study area to the shore
mean_yr_discharge	m <sup>3</sup> ·s <sup>-1</sup>	Mean annual water discharge of the river at studied location
backwater_length	km	Approximation of the river backwater length based on estimated mean bankfull depth for the proximal part of the study area
bathymetric_slope	dimensionless (m·m-1)	Gradient of the receiving basin offshore of river mouths (Caldwell et al. 2019, Earth Surf. Dynam., 7, 773-787)
mean_wave_height	m	Mean significant wave height
tidal_range	m	Mean tidal range
Qw_Qr	_	Wave-to-fluvial sediment discharge ratio (Nienhuis et al. 2020, Nature, 577, 514-518) for avulsion and channel-thread metrics

Qw_Qr_L	_	Wave-to-fluvial sediment discharge ratio (Nienhuis et al. 2020, Nature, 577, 514-518) for delta-lobe metrics
Qt_Qr	_	Tidal-to-fluvial sediment discharge ratio (Nienhuis et al. 2020, Nature, 577, 514-518) for avulsion and channel-thread metrics
Qt_Qr_L	_	Tidal-to-fluvial sediment discharge ratio (Nienhuis et al. 2020, Nature, 577, 514-518) for delta-lobe metrics
sl_change	mm·yr-1	Present-day sea-level change based on AVISO satellite altimetry records (Caldwell et al. 2019, Earth Surf. Dynam., 7, 773-787)
ice6g_rsl_change	mm·yr-1	Present-day ICE6-G glacioisostatic relative sea-level change
t_rsl	mm·yr-1	ALTIGAPS present-day relative sea-level change
s_rsl	mm·yr-1	ALTIGAPS present-day relative sea-level change standard deviation
altigaps_datatype	[class]	ALTIGAPS data type, classified as GPS or tide gauge (TG)