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Supplemental Material

Table S1. A tabulation of 50 turbidite channels (numbered red circles in Fig. 1) with lateral (*L*), random (*R*), and vertical (*V*) channel-complex trajectories (measured as T_{se} = angles of channel pathways) and their relation to channel morphometric properties (reported as *W* = channel widths, *T* = channel thicknesses, and aspect ratios = *W/T*) and architectures (represented by M_s = mobility number).

Table S2. A summary of 49 contourite channels (numbered white circles in Fig. 1) with oblique upslope channel-complex trajectories (measured as T_{se} = angles of channel pathways) and their relation to channel morphometric properties (reported as *W* = channel widths, *T* = channel thicknesses, and aspect ratios = *W/T*) and architectures (represented by M_s = mobility number).

Table S3. A tabulation of 43 deep-water channels (numbered yellow circles in Fig. 1) with unidirectional channel-complex trajectories (measured as T_{se} = angles of channel pathways) and their relation to channel morphometric properties (reported as *W* = channel widths, *T* = channel thicknesses, and aspect ratios = *W/T*) and architectures (represented by M_s = mobility number).

Table S1. A tabulation of 50 turbidite channels (numbered red circles in Fig. 1) with lateral (*L*), random (*R*), and vertical (*V*) channel-complex trajectories (measured as T_{se} = angles of channel pathways) and their relation to channel morphometric properties (reported as *W* = channel widths, *T* = channel thicknesses, and aspect ratios = *W/T*) and architectures (represented by M_s = mobility number). The listed channel examples are typically oriented parallel or subparallel to the direction of down-slope turbidity currents, and are generally interpreted to be created by down-slope turbidity currents (i.e., turbidite channels).

Codes	Locations	Examples or key references	Climate states		Morphologies			Architectures	Channel trajectories	
			Ages	Climates	*W* (m)	*T* (m)	*W/T*	M_s	T_{se} (°)	Trends
TC1	Yinggehai	Unpublished seismic data (Li and Gong, 2016)	Pliocene	Icehouse	814	59	12	1.89	2.2	*L*
TC2	Offshore Indonesia	Figure 9B of Saller et al. 2012	Late Quaternary	Icehouse	602	195	3	0.25	52.7	*V*
TC3		Figure 8A of Saller et al. 2004	Late Quaternary	Icehouse	768	200	4	0.52	26.5	*V*
TC4	Eastern Borneo Margin	Figure 2A of Posamentie and Kolla (2003)	Late Quaternary	Icehouse	1626	130	12	1.21	3.8	*L*
TC5	Austrian Molasse basin	Figure 14 of Hubbard et al. 2009	Late Oligocene to early Miocene	Icehouse	3937	196	20	0.76	3.7	*L*
TC6				Icehouse	3804	196	19	1.12	2.6	*L*
TC7				Icehouse	3814	159	24	0.79	3.0	*L*
TC8	Bengal Fan (Zhang	Unpublished seismic data	Pliocene	Icehouse	786	127	6	0.36	24.3	*V*

TC9	et al., 2017)	Unpublished seismic data		Icehouse	1450	299	5	0.47	23.6	*V*
TC10		Figure 7B	Pliocene	Icehouse	1849	280	7	0.64	13.3	*V*
TC11	Channel T1 in the Indus Fan, Arabian Sea	Figure 2A of Deptuck et al. 2003	Late Quaternary	Icehouse	954	225	4	0.45	27.9	*V*
TC12				Icehouse	994	270	4	0.71	21.0	*V*
TC13				Icehouse	3589	177	20	0.69	4.1	*R*
TC14				Icehouse	3698	97	38	0.96	1.6	*L*
TC15	Channel T2 in the Indus Fan, Arabian Sea	Figure 3A of Deptuck et al. 2003	Late Quaternary	Icehouse	1970	296	7	0.12	50.8	*V*
TC16				Icehouse	1256	275	5	0.13	59.0	*V*
TC17				Icehouse	3516	187	19	0.60	5.1	*R*
TC18				Icehouse	3960	99	48	0.88	1.6	*L*
TC19	Channel T3 in the Indus Fan, Arabian Sea	Figure 6D of Sylvester et al. 2011	Late Quaternary	Icehouse	1314	141	9	0.29	20.1	*V*
TC20				Icehouse	867	200	4	0.86	15.1	*V*
TC21				Icehouse	1802	62	29	1.19	1.7	*L*
TC22				Icehouse	945	130	7	0.65	12.0	*V*
TC23				Icehouse	1923	152	13	1.11	4.1	*L*
TC24	Channel T3 in the Indus Fan, Arabian Sea	Figure 6D of Sylvester et al. 2011	Late Quaternary	Icehouse	892	227	4	0.60	22.9	*V*
TC25				Icehouse	2343	113	21	1.11	2.5	*R*
TC26				Icehouse	1560	64	24	1.06	2.2	*L*

TC27				Icehouse	3992	95	42	0.97	1.4	*L*
TC28				Icehouse	834	85	10	1.81	3.2	*R*
TC29	Offshore Angola	Figure 2 of Abreu et al. 2003	N/A	N/A	623	100	6	0.59	15.3	*V*
TC30				N/A	825	72	11	0.85	5.9	*R*
TC31				N/A	404	26	15	1.41	2.6	*L*
TC32	West Africa margin	Figure 17 of Janocko et al. (2013)	Quaternary	Icehouse	2126	106	20	1.21	2.4	*R*
TC33				Icehouse	712	33	22	1.35	1.9	*L*
TC34				Icehouse	399	101	4	0.49	27.5	*V*
TC35	Zaire turbidite fan	Figure 8 of Labourdette and Bez (2009)	Late Oligocene	Icehouse	633	38	17	1.64	2.1	*L*
TC36	Benin channel, western Niger Delta slope	Figure 8 of Labourdette and Bez (2009)	Quaternary	Icehouse	435	85	5	0.22	42.0	*V*
TC37				Icehouse	732	108	7	0.19	37.2	*V*
TC38	Benin channel, western Niger Delta slope	Figure 7A of Deptuck et al. (2007)	Quaternary	Icehouse	667	108	6	0.11	56.8	*V*
TC39				Icehouse	501	108	5	0.79	15.2	*V*
TC40				Icehouse	2121	88	24	1.32	1.8	*R*
TC41				Icehouse	1785	42	42	0.95	1.4	*L*
TC42	Benin-major channel, western	Figure 5A of Deptuck et al.	Quaternary	Icehouse	641	291	2	0.31	55.8	*V*
TC43				Icehouse	1688	126	13	1.56	2.7	*R*

TC44	Niger Delta slope	(2012)		Icehouse	3515	165	21	1.73	1.6	*L*
TC45	West Nile Delta	Figure 4A of Cross et al. (2009)	Pliocene	Icehouse	3384	149	23	1.37	1.8	*R*
TC46	Joshua channels, Gulf of Mexico	Figure 4	Late Quaternary	Icehouse	1342	121	11	1.50	3.4	*L*
TC47				Icehouse	862	294	3	0.47	36.1	*V*
TC48	Offshore Colombia	Figure 10 of Stevenson et al. (2015)	Late Quaternary	Icehouse	555	113	5	0.76	14.9	*V*
TC49				Icehouse	1071	125	9	0.23	26.9	*V*
TC50	Amazon fan	Figure 16 of Pirmez and Flood (2003)	Late Quaternary	Icehouse	1666	290	6	0.45	21.3	*V*

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Codes	Locations	Examples or key references	Climate states		Morphologies			Architectures	Channel trajectories	
			Ages	Climates	W (m)	T (m)	W/T	M_s	T_{se} (°)	Trends
C1	Sakhalin Basin Russia	Figure 8A of Henriksen et al. -2008	Miocene to recent	Icehouse	3447	59	17	0.83	-88.8	*Upslope*
C2				Icehouse	2562	45	23	0.69	-88.5	*Upslope*
C3				Icehouse	2402	42	14	0.43	-87.6	*Upslope*
C4				Icehouse	2404	48	20	0.66	-88.3	*Upslope*
C5				Icehouse	2282	38	18	0.50	-88.1	*Upslope*
C6				Icehouse	2383	36	17	0.61	-88.6	*Upslope*
C7				Icehouse	1598	47	21	0.32	-84.7	*Upslope*
C8				Icehouse	1355	37	12	0.71	-87.8	*Upslope*
C9				Icehouse	2171	51	9	0.80	-88.3	*Upslope*
C10				Icehouse	3382	69	36	0.87	-88.7	*Upslope*
C11	North Okhotsk margin	Figure 8A of Wong et al. 2003	Quaternary	Icehouse	2139	60	27	1.20	-88.7	*Upslope*
C12	Qiongdongnan slope	Wild and Posamentier (2012)	Middle Miocene	Icehouse	3050	119	30	0.08	-62.9	*Upslope*
C13				Icehouse	2664	119	31	0.08	-60.8	*Upslope*
C14				Icehouse	1831	76	22	0.06	-57.4	*Upslope*
C15				Icehouse	3016	127	26	0.04	-44.9	*Upslope*
C16	Southern Qiongdongnan	Figure 6A of Gong et al. (2017)	Recent	Icehouse	4778	178	20	0.29	-82.7	*Upslope*

C17	Faeroe-Shetland margin	Figure 8A	Late Neogene	Icehouse	4640	74	23	0.16	-84.4	*Upslope*
C18				Icehouse	4567	70	29	0.62	-88.6	*Upslope*
C19				Icehouse	1565	25	19	0.36	-87.4	*Upslope*
C20	Faeroe-Shetland margin	Figure 8A	Late Neogene	Icehouse	3870	59	22	0.24	-86.3	*Upslope*
C21	West Shetland	Figure 13 of Knutz, 2008	Plio-Pleistocene	Icehouse	865	51	27	0.11	-62.4	*Upslope*
C22	West Shetland			Icehouse	993	38	43	0.16	-76.5	*Upslope*
C23	West Shetland			Icehouse	1340	33	13	0.17	-81.7	*Upslope*
C24	West Shetland			Icehouse	827	42	16	0.16	-72.8	*Upslope*
C25	West Shetland			Icehouse	2010	75	15	0.07	-63.4	*Upslope*
C26	Northern Tyrrhenian	Figure 8 of Miramontes -2016	Quaternary	Icehouse	442	31	20	0.15	-65.9	*Upslope*
C27	Algarve Cabral contourite channel, Gulf of Cadiz	Figure 10 of Hernández-Molina -2016	Early Pliocene	Icehouse	3516	127	13	0.16	-77.6	*Upslope*
C28				Icehouse	2772	78	12	0.64	-87.5	*Upslope*
C29				Icehouse	2904	46	13	0.68	-88.7	*Upslope*
C30				Icehouse	3413	55	10	0.13	-82.8	*Upslope*
C31	North Sea Basin	Figure 2A of Knutz -2008	Pliocene	Icehouse	895	28	10	0.09	-71.8	*Upslope*
C32				Icehouse	993	25	10	0.04	-57.0	*Upslope*
C33				Icehouse	1697	41	11	0.05	-62.3	*Upslope*
C34				Icehouse	1650	40	45	0.02	-42.4	*Upslope*
C35				Icehouse	1380	25	14	0.02	-45.3	*Upslope*
C36				Icehouse	1389	21	13	0.02	-55.3	*Upslope*
C37				Icehouse	1986	42	24	0.02	-40.2	*Upslope*
C38	German North Sea	Figure 7 of Surlyk et al. -2008	Late Cretaceous	Greenhouse	1457	70	25	0.05	-46.7	*Upslope*
C39	German North Sea			Greenhouse	2343	98	26	0.05	-48.9	*Upslope*
C40	German North Sea			Greenhouse	4186	105	27	0.07	-70.8	*Upslope*
C41	Southern Scotia Sea	Figure 7 of Pérez et al. -2014	Quaternary	Icehouse	2601	46	32	0.03	-62.1	*Upslope*
C42	Southern Scotia Sea			Icehouse	681	37	26	0.24	-77.4	*Upslope*

C43	Santos Basin	Figure 9B	Early Miocene	Icehouse	430	23	8	0.14	-69.1	*Upslope*
C44	Santos Basin			Icehouse	814	34	17	0.26	-80.9	*Upslope*
C45	Offshore Canterbury Basin	Figure 8B	Late Miocene to Pliocene	Icehouse	1279	56	23	0.55	-85.4	*Upslope*
C46	Offshore Canterbury Basin	Figure 8B	Late Miocene to Pliocene	Icehouse	1081	29	14	0.17	-81.3	*Upslope*
C47				Icehouse	1998	138	20	0.06	-72.6	*Upslope*
C48				Icehouse	1230	62	18	0.04	-89.8	*Upslope*
C49				Icehouse	1993	75	17	0.03	-89.8	*Upslope*

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Codes	Locations	Examples or key references	Climate states		Channel morphologies			Architectures	Channel trajectories	
			Ages	Climates	W (m)	T (m)	W/T	M_s	T_{se} (°)	Trends
UC1	Pearl River mouth slope	U1 on Figure 9B	Miocene to recent	Icehouse	3151	186	59	0.23	14.2	*Alongslope*
UC2		U2 on Figure 9B		Icehouse	4217	183	57	0.23	10.8	*Alongslope*
UC3		U3 on Figure 9B		Icehouse	3580	251	57	0.35	11.3	*Alongslope*
UC4		U4 on Figure 9B		Icehouse	4528	226	50	0.27	10.6	*Alongslope*
UC5		U5 on Figure 9B		Icehouse	4571	248	60	0.31	9.9	*Alongslope*
UC6		U6 on Figure 9B		Icehouse	2769	165	66	0.28	11.8	*Alongslope*
UC7		U7 on Figure 9B		Icehouse	4382	214	34	0.32	8.8	*Alongslope*
UC8	Western Pearl River slope	U1 on Figure 11A	Pliocene	Icehouse	2723	228	37	0.62	7.7	*Alongslope*
UC9	Western Pearl River slope	U2 on Figure 11A		Icehouse	1479	165	42	0.34	18.0	*Alongslope*

UC10	Eastern Qiongdongnan margin	U1 on Figure 11B	Late Miocene	Icehouse	1649	46	49	0.24	6.6	*Alongslope*
UC11		U2 on Figure 11B		Icehouse	1528	57	36	0.37	5.7	*Alongslope*
UC12		U3 on Figure 11B		Icehouse	1481	50	26	0.33	5.8	*Alongslope*
UC13	Eastern Qiongdongnan margin	U4 on Figure 11B	Late Miocene	Icehouse	2013	65	22	0.36	5.1	*Alongslope*
UC14		U5 on Figure 11B		Icehouse	1180	53	24	0.37	6.9	*Alongslope*
UC15		U6 on Figure 11B		Icehouse	1247	48	24	0.39	5.7	*Alongslope*
UC16		U7 on Figure 11B		Icehouse	1394	69	27	0.46	6.1	*Alongslope*
UC17		U8 on Figure 11B		Icehouse	1769	77	62	0.49	5.1	*Alongslope*
UC18		U9 on Figure 11B		Icehouse	1776	61	65	0.31	6.3	*Alongslope*
UC19	North Carnarvon Basin	Figure 12B of Cathro et al. (2003)	Middle to late Miocene	Icehouse	556	29	61	0.06	39.8	*Alongslope*
UC20				Icehouse	536	24	66	0.23	11.2	*Alongslope*
UC21				Icehouse	951	35	17	0.23	9.2	*Alongslope*
UC22				Icehouse	1022	24	26	0.13	10.0	*Alongslope*
UC23	North Mozambique	Figure 2 of Palermo et al. (2014)	Early Eocene	Greenhouse	710	54	40	0.10	37.0	*Alongslope*
UC24				Greenhouse	586	58	20	0.15	32.7	*Alongslope*
UC25				Greenhouse	434	46	27	0.20	27.2	*Alongslope*
UC26				Greenhouse	541	55	14	0.12	40.7	*Alongslope*
UC27				Greenhouse	454	43	28	0.10	44.4	*Alongslope*

UC28				Greenhouse	3351	142	36	0.22	11.0	*Alongslope*
UC29	Offshore Gabon	Figure 12A of Lonergan et al. (2013)	Late Quaternary	Icehouse	2624	105	63	0.17	13.4	*Alongslope*
UC30				Icehouse	3572	139	62	0.12	18.2	*Alongslope*
UC31	Offshore Gabon	Figure 12A of Lonergan et al. (2013)	Late Quaternary	Icehouse	2465	90	33	0.14	14.8	*Alongslope*
UC32	Offshore Gabon			Icehouse	3066	97	40	0.34	5.4	*Alongslope*
UC33	Offshore Gabon			Icehouse	2495	97	41	0.36	6.2	*Alongslope*
UC34	Lower Congo Basin	Figure 10B	Oligocene	Greenhouse	1998	245	42	0.39	17.4	*Alongslope*
UC35	Lower Congo Basin			Greenhouse	1289	97	55	0.59	7.3	*Alongslope*
UC36	Lower Congo Basin			Greenhouse	1525	98	67	0.69	5.3	*Alongslope*
UC37	Ebro margin	Figure 4B of Kertznus and Kneller (2009)	Pleistocene	Icehouse	614	41	47	0.60	6.4	*Alongslope*
UC38				Icehouse	712	36	8	0.54	5.3	*Alongslope*
UC39				Icehouse	793	60	20	0.79	5.5	*Alongslope*
UC40				Icehouse	1446	121	32	0.41	11.7	*Alongslope*
UC41	South Greenland margin	Figure 12A	Miocene to recent	Icehouse	3040	106	21	0.11	16.9	*Alongslope*
UC42		Figure 12B		Icehouse	1790	129	24	0.33	12.3	*Alongslope*
UC43	South Brazilian margin	Figure 12C	Quaternary	Icehouse	1401	110	40	0.14	29.5	*Alongslope*

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