

Supplementary Table 3: 75-kyr paired mean summer temperature (MST) and moisture balance (BIT-index) data for eastern equatorial Africa based on GDGT distributions in the DeepCHALLA sediment sequence. The DeepCHALLA (DCH) GDGT-based climate proxy data series consist of paired measurements on 373 discrete 2-cm-thick sediment samples, represented by their DCH event-free depth in meter (mefd). Section depth center refers to the distance (in cm) of the sample's center from the top of the individual core section as represented by its DCH core code. Sediment age is based on the age model as presented in Fig. 2 in Baxter et al. (2023). Mean Summer Temperature (MST) was calculated from the distribution of sedimentary brGDGTs according to Pearson et al. (2011) and rescaled using an ensemble reconstruction for eastern Africa covering the last 25 ka (Extended Data Fig. 4 in Baxter et al., 2023). The branched versus isoprenoid tetraether (BIT) index of sedimentary brGDGTs from Lake Chala, reflecting lake water-balance variation, was calculated according to Hopmans et al. (2004).

DCH depth	DCH core code	Section depth center	Age	Rescaled MST	BIT index
mefd		cm	Kyr ago	°C	
0.075	DCH-CHL16-1G-1G-1	11	-0.04	23.43	0.51
0.235	DCH-CHL16-1G-1G-1	27	0.08	23.38	0.65
0.394	DCH-CHL16-1Z-1H-1	31	0.14	22.91	0.48
0.718	DCH-CHL16-1G-1G-1	46.5	0.31	23.31	0.61
0.878	DCH-CHL16-1Y-1H-1	62.5	0.41	23.80	0.59
1.198	DCH-CHL16-1Y-1H-1	94.5	0.56	23.73	0.53
1.358	DCH-CHL16-1Y-1H-1	110.5	0.66	23.83	0.65
1.518	DCH-CHL16-1Y-1H-1	126.5	0.81	24.04	0.63
1.7	DCH-CHL16-1B-1H-1	41	1.00	23.91	0.71
1.835	DCH-CHL16-1B-1H-1	54.5	1.15	23.98	0.66
1.995	DCH-CHL16-1B-1H-1	70.5	1.31	23.81	0.76
2.155	DCH-CHL16-1B-1H-1	86.5	1.46	23.90	0.72
2.315	DCH-CHL16-1B-1H-1	102.5	1.63	23.77	0.61
2.475	DCH-CHL16-1B-1H-1	118.5	1.85	23.78	0.53
2.635	DCH-CHL16-1B-1H-1	134.5	2.05	23.59	0.66
2.791	DCH-CHL16-1B-1H-2	5.5	2.23	23.64	0.68
2.971	DCH-CHL16-1B-1H-2	23.5	2.37	23.63	0.84
3.131	DCH-CHL16-1B-1H-2	39.5	2.51	23.81	0.80
3.276	DCH-CHL16-1B-1H-2	54	2.64	23.50	0.65
3.421	DCH-CHL16-1B-1H-2	68.5	2.77	23.40	0.70
3.596	DCH-CHL16-1B-1H-2	86	2.93	23.27	0.61
3.766	DCH-CHL16-1B-1H-2	103	3.10	23.27	0.63

3.916	DCH-CHL16-1B-1H-2	118	3.27	23.59	0.65
4.11	DCH-CHL16-1A-3H-2	26	3.49	22.94	0.69
4.24	DCH-CHL16-1A-3H-2	39	3.69	23.14	0.74
4.377	DCH-CHL16-1A-3H-2	55	3.84	23.57	0.77
4.537	DCH-CHL16-1A-3H-2	71	4.02	23.62	0.78
4.768	DCH-CHL16-1B-2H-1	38	4.29	24.13	0.71
4.843	DCH-CHL16-1B-2H-1	45.5	4.38	24.21	0.75
5.003	DCH-CHL16-1B-2H-1	61.5	4.60	23.85	0.57
5.163	DCH-CHL16-1B-2H-1	77.5	4.74	24.10	0.53
5.323	DCH-CHL16-1B-2H-1	93.5	4.87	24.44	0.51
5.483	DCH-CHL16-1B-2H-1	109.5	5.03	24.40	0.54
5.643	DCH-CHL16-1B-2H-1	125.5	5.19	24.49	0.46
5.803	DCH-CHL16-1B-2H-1	141.5	5.37	25.01	0.55
5.968	DCH-CHL16-1B-2H-2	4.5	5.54	25.08	0.60
6.128	DCH-CHL16-1B-2H-2	20.5	5.71	24.15	0.54
6.268	DCH-CHL16-1B-2H-2	34.5	5.85	24.81	0.74
6.449	DCH-CHL16-1B-2H-2	85.5	6.03	24.04	0.50
6.609	DCH-CHL16-1B-2H-2	101.5	6.19	24.34	0.36
6.769	DCH-CHL16-1B-2H-2	117.5	6.37	24.66	0.46
6.929	DCH-CHL16-1B-2H-2	133.5	6.58	23.95	0.70
7.089	DCH-CHL16-1A-4H-2	46.5	6.78	24.31	0.56
7.241	DCH-CHL16-1A-4H-2	62.5	6.96	24.00	0.50
7.401	DCH-CHL16-1A-4H-2	78.5	7.21	23.53	0.44
7.561	DCH-CHL16-1A-4H-2	94.5	7.39	24.98	0.50
7.696	DCH-CHL16-1A-4H-2	109.5	7.55	24.59	0.62
7.866	DCH-CHL16-1A-4H-2	126.5	7.72	24.56	0.61
8.307	DCH-CHL16-1A-4H-3	63	8.38	24.63	0.58
8.627	DCH-CHL16-1A-4H-3	96	8.90	23.84	0.65
8.787	DCH-CHL16-1A-4H-3	112	9.44	23.53	0.99
8.945	DCH-CHL16-1B-3H-2	40	9.73	23.29	1.00
9.092	DCH-CHL16-1B-3H-2	56	10.02	22.67	0.99
9.228	DCH-CHL16-1B-3H-2	72	10.23	22.79	0.92
9.349	DCH-CHL16-1B-3H-2	88	10.36	22.77	0.94
9.504	DCH-CHL16-1B-3H-2	104	10.53	22.56	0.97
9.662	DCH-CHL16-1A-5H-2	6.5	10.71	22.55	0.99
9.822	DCH-CHL16-1A-5H-2	22.5	10.89	22.42	0.99
9.982	DCH-CHL16-1A-5H-2	38.5	11.07	21.99	0.98
10.142	DCH-CHL16-1A-5H-2	54.5	11.23	22.96	0.99
10.302	DCH-CHL16-1A-5H-2	70.5	11.39	22.43	0.98
10.462	DCH-CHL16-1A-5H-2	86.5	11.65	21.69	0.87
10.635	DCH-CHL16-1A-5H-3	3.5	11.89	21.17	0.45
10.764	DCH-CHL16-1A-5H-3	18.5	12.08	21.91	0.42
10.924	DCH-CHL16-1A-5H-3	34.5	12.30	21.46	0.36
11.084	DCH-CHL16-1A-5H-3	50.5	12.51	21.43	0.37
11.244	DCH-CHL16-1A-5H-3	66.5	12.70	22.16	0.28
11.394	DCH-CHL16-1A-5H-3	81.5	12.89	21.54	0.93
11.564	DCH-CHL16-1A-5H-3	98.5	13.12	21.05	0.57
11.724	DCH-CHL16-1A-5H-3	114.5	13.36	21.32	0.77

11.864	DCH-CHL16-1A-5H-3	128.5	13.57	20.92	0.65
12.042	DCH-CHL16-1B-4H-2	24	13.87	21.30	0.70
12.202	DCH-CHL16-1B-4H-2	40	14.11	20.99	0.52
12.362	DCH-CHL16-1B-4H-2	56	14.35	20.27	0.42
12.522	DCH-CHL16-1B-4H-2	72	14.62	20.36	0.52
12.682	DCH-CHL16-1B-4H-2	88	14.94	20.42	0.51
12.842	DCH-CHL16-1B-4H-2	104	15.25	20.60	0.43
13.002	DCH-CHL16-1B-4H-2	120	15.51	20.61	0.44
13.162	DCH-CHL16-1B-4H-2	136	15.74	21.24	0.53
13.323	DCH-CHL16-1A-6H-2	38	15.93	21.56	0.46
13.483	DCH-CHL16-1A-6H-2	54	16.12	21.50	0.36
13.643	DCH-CHL16-1A-6H-2	70	16.29	21.55	0.37
13.803	DCH-CHL16-1B-5H-1	29.5	16.45	21.35	0.37
13.963	DCH-CHL16-1B-5H-1	45.5	16.62	21.31	0.35
14.123	DCH-CHL16-1B-5H-1	61.5	16.78	21.15	0.37
14.283	DCH-CHL16-1B-5H-1	77.5	16.95	20.86	0.30
14.443	DCH-CHL16-1B-5H-1	93.5	17.10	20.46	0.33
14.603	DCH-CHL16-1B-5H-1	109.5	17.27	20.87	0.33
14.763	DCH-CHL16-1B-5H-1	125.5	17.42	20.78	0.29
14.923	DCH-CHL16-1B-5H-1	141.5	17.58	20.52	0.34
15.087	DCH-CHL16-1B-5H-2	6.5	17.74	20.61	0.37
15.247	DCH-CHL16-1B-5H-2	22.5	17.90	20.83	0.34
15.407	DCH-CHL16-1B-5H-2	38.5	18.05	20.75	0.33
15.567	DCH-CHL16-1B-5H-2	54.5	18.19	20.71	0.38
15.727	DCH-CHL16-1B-5H-2	70.5	18.32	21.11	0.33
15.887	DCH-CHL16-1B-5H-2	86.5	18.46	21.05	0.35
16.047	DCH-CHL16-1B-5H-2	102.5	18.60	20.96	0.34
16.207	DCH-CHL16-1A-7H-2	48	18.74	21.54	0.29
16.367	DCH-CHL16-1A-7H-2	64	18.87	20.91	0.36
16.527	DCH-CHL16-1A-7H-2	80	19.01	20.64	0.34
16.687	DCH-CHL16-1A-7H-2	96	19.15	20.69	0.28
16.847	DCH-CHL16-1A-7H-2	112	19.29	21.18	0.27
17.007	DCH-CHL16-1A-7H-2	128	19.42	20.98	0.36
17.16	DCH-CHL16-1A-7H-2	144	19.55	20.59	0.31
17.304	DCH-CHL16-1A-7H-3	10.5	19.72	21.10	0.34
17.463	DCH-CHL16-1B-6H-1	68.5	19.92	21.10	0.34
17.778	DCH-CHL16-1B-6H-1	100.5	20.33	21.47	0.33
17.938	DCH-CHL16-1B-6H-1	116.5	20.51	22.12	0.33
18.098	DCH-CHL16-1B-6H-1	132.5	20.71	21.23	0.36
18.266	DCH-CHL16-1B-6H-2	3	20.90	21.53	0.30
18.43	DCH-CHL16-1B-6H-2	21	20.98	21.83	0.48
18.58	DCH-CHL16-1B-6H-2	36	21.05	21.98	0.37
18.74	DCH-CHL16-1B-6H-2	52	21.13	21.96	0.51
18.895	DCH-CHL16-1B-6H-2	68	21.21	21.95	0.62
19.059	DCH-CHL16-1B-6H-2	89	21.30	21.95	0.41
19.22	DCH-CHL16-1A-8H-2	17	21.39	21.58	0.49
19.38	DCH-CHL16-1A-8H-2	33	21.48	21.85	0.76
19.54	DCH-CHL16-1A-8H-2	49	21.58	21.81	0.44

19.7	DCH-CHL16-1A-8H-2	65	21.67	21.94	0.42
19.86	DCH-CHL16-1A-8H-2	81	21.77	21.78	0.75
20.02	DCH-CHL16-1A-8H-2	97	21.87	22.20	0.33
20.18	DCH-CHL16-1B-7H-1	24.5	22.00	22.26	0.55
20.34	DCH-CHL16-1B-7H-1	40.5	22.15	21.95	0.63
20.5	DCH-CHL16-1B-7H-1	56.5	22.30	22.03	0.46
20.66	DCH-CHL16-1B-7H-1	72.5	22.45	21.29	0.43
20.82	DCH-CHL16-1B-7H-1	88.5	22.60	21.81	0.72
20.978	DCH-CHL16-1B-7H-1	124	22.73	22.43	0.37
21.158	DCH-CHL16-1B-7H-1	142	22.90	22.08	0.78
21.323	DCH-CHL16-1B-7H-2	7	23.02	22.57	0.99
21.483	DCH-CHL16-1B-7H-2	23	23.15	22.15	0.83
21.677	DCH-CHL16-1B-7H-2	47	23.29	22.50	0.99
21.827	DCH-CHL16-1B-7H-2	62	23.41	22.40	0.60
22.007	DCH-CHL16-1A-9H-1	39	23.60	22.44	0.78
22.14	DCH-CHL16-1A-9H-2	14	23.74	22.43	0.99
22.3	DCH-CHL16-1A-9H-2	30	23.88	22.34	0.73
22.608	DCH-CHL16-1A-9H-2	64	24.17	22.32	0.31
22.768	DCH-CHL16-1A-9H-2	80	24.32	22.47	0.99
22.936	DCH-CHL16-1B-8H-1	34.5	24.51	22.30	0.77
23.096	DCH-CHL16-1B-8H-1	50.5	24.69	22.09	0.72
23.256	DCH-CHL16-1B-8H-1	66.5	24.87	21.61	0.63
23.416	DCH-CHL16-1B-8H-1	82.5	24.99	22.61	0.98
23.576	DCH-CHL16-1B-8H-1	98.5	25.18	21.80	0.67
23.736	DCH-CHL16-1B-8H-1	114.5	25.38	22.10	0.75
23.896	DCH-CHL16-1B-8H-1	130.5	25.58	21.60	0.43
24.354	DCH-CHL16-1B-8H-2	33.5	26.15	22.90	0.99
24.514	DCH-CHL16-1B-8H-2	49.5	26.34	22.83	0.99
24.68	DCH-CHL16-1B-8H-2	76.5	26.55	22.80	0.83
24.84	DCH-CHL16-1B-8H-2	92.5	26.75	22.74	0.88
25.152	DCH-CHL16-1A-10H-2	32	27.15	22.74	0.99
25.312	DCH-CHL16-1A-10H-2	48	27.35	23.14	0.99
25.472	DCH-CHL16-1A-10H-2	64	27.55	22.73	0.99
25.631	DCH-CHL16-1A-10H-2	85.5	27.75	23.10	0.99
25.791	DCH-CHL16-1A-10H-2	101.5	27.95	23.21	0.99
25.955	DCH-CHL16-1B-9H-1	29.5	28.15	22.75	0.99
26.115	DCH-CHL16-1B-9H-1	45.5	28.35	22.51	0.94
26.275	DCH-CHL16-1B-9H-1	61.5	28.55	22.85	0.90
26.442	DCH-CHL16-1B-9H-1	83.5	28.75	22.83	0.99
26.609	DCH-CHL16-1B-9H-2	12.5	28.97	22.75	0.93
26.769	DCH-CHL16-1B-9H-2	28.5	29.17	23.56	0.99
26.929	DCH-CHL16-1B-9H-2	44.5	29.38	22.58	0.77
27.089	DCH-CHL16-1B-9H-2	60.5	29.58	23.16	0.50
27.247	DCH-CHL16-1B-9H-3	7.5	29.77	22.66	0.99
27.407	DCH-CHL16-1B-9H-3	23.5	29.97	22.79	0.74
27.56	DCH-CHL16-1B-9H-3	39.5	30.17	23.63	0.77
27.72	DCH-CHL16-1B-9H-3	55.5	30.36	22.96	0.71
28.031	DCH-CHL16-1B-9H-3	87.5	30.75	22.64	0.99

28.191	DCH-CHL16-1B-9H-3	103.5	30.95	22.90	1.00
28.351	DCH-CHL16-1B-9H-3	119.5	31.15	22.92	1.00
28.511	DCH-CHL16-1B-9H-3	135.5	31.35	23.25	1.00
28.669	DCH-CHL16-1A-11H-2	16	31.55	23.26	0.99
28.827	DCH-CHL16-1A-11H-2	36	31.75	23.06	0.99
28.987	DCH-CHL16-1A-11H-2	52	31.95	23.20	0.99
29.142	DCH-CHL16-1A-11H-2	68	32.14	22.50	1.00
29.301	DCH-CHL16-1A-11H-3	12	32.34	22.75	0.99
29.461	DCH-CHL16-1A-11H-3	28	32.54	22.31	0.99
29.621	DCH-CHL16-1A-11H-3	44	32.74	22.29	0.86
29.781	DCH-CHL16-1A-11H-3	60	32.94	22.49	1.00
29.911	DCH-CHL16-1A-11H-3	79.5	33.10	22.74	0.99
30.102	DCH-CHL16-1A-11H-3	127	33.34	22.62	0.99
30.232	DCH-CHL16-1A-11H-3	140	33.51	21.97	0.90
30.389	DCH-CHL16-1B-10H-3	36	33.69	21.81	0.83
30.857	DCH-CHL16-1B-10H-3	87.5	34.28	22.40	0.99
31.017	DCH-CHL16-1B-10H-3	103.5	34.48	22.32	0.93
31.181	DCH-CHL16-1B-10H-3	121	34.69	22.52	0.99
31.341	DCH-CHL16-1B-10H-3	137	34.89	23.10	0.99
31.497	DCH-CHL16-1A-12H-2	14	35.09	23.08	0.99
31.657	DCH-CHL16-1A-12H-2	30	35.29	22.90	0.99
31.817	DCH-CHL16-1B-11H-1	17.5	35.49	21.82	0.59
31.977	DCH-CHL16-1B-11H-1	33.5	35.69	22.33	0.94
32.137	DCH-CHL16-1B-11H-1	49.5	35.89	22.66	0.99
32.302	DCH-CHL16-1B-11H-1	66	36.10	21.85	0.83
32.442	DCH-CHL16-1B-11H-1	80	36.26	22.30	0.93
32.618	DCH-CHL16-1B-11H-1	105.5	36.49	22.28	0.98
32.794	DCH-CHL16-1B-11H-1	132	36.71	22.72	0.99
32.949	DCH-CHL16-1B-11H-1	147.5	36.91	22.04	0.35
33.109	DCH-CHL16-1B-11H-2	12.5	37.10	22.06	0.83
33.269	DCH-CHL16-1B-11H-2	28.5	37.31	22.42	0.93
33.429	DCH-CHL16-1B-11H-2	44.5	37.51	22.55	0.56
33.585	DCH-CHL16-1B-11H-2	106.5	37.70	22.59	0.63
33.74	DCH-CHL16-1B-11H-2	122.5	37.90	23.00	0.99
33.895	DCH-CHL16-1A-13H-1	87.5	38.10	22.84	0.99
34.064	DCH-CHL16-1A-13H-1	111.5	38.30	22.33	0.99
34.224	DCH-CHL16-1A-13H-1	127.5	38.51	23.38	0.98
34.369	DCH-CHL16-1A-13H-1	143.5	38.70	23.12	0.88
34.536	DCH-CHL16-1A-13H-2	20.5	38.91	22.63	0.78
34.69	DCH-CHL16-1A-13H-2	40.5	39.09	22.74	0.88
34.847	DCH-CHL16-1A-13H-2	62.5	39.29	23.08	0.99
35.005	DCH-CHL16-1A-13H-2	85	39.50	22.70	0.99
35.301	DCH-CHL16-1A-13H-2	123	39.86	22.95	0.99
35.47	DCH-CHL16-1B-12H-3	22.5	40.08	22.76	0.96
35.63	DCH-CHL16-1B-12H-3	38.5	40.29	22.45	1.00
35.79	DCH-CHL16-1B-12H-3	54.5	40.48	22.68	0.99
35.95	DCH-CHL16-1B-12H-3	70.5	40.68	22.40	1.00
36.11	DCH-CHL16-1B-12H-3	86.5	40.88	22.56	1.00

36.268	DCH-CHL16-1A-14H-1	49	41.08	22.70	0.99
36.424	DCH-CHL16-1A-14H-1	71	41.28	22.35	0.99
36.581	DCH-CHL16-1A-14H-1	93	41.47	22.76	0.99
36.748	DCH-CHL16-1A-14H-1	120	41.67	22.60	0.99
36.908	DCH-CHL16-1A-14H-1	136	41.87	22.26	0.99
37.07	DCH-CHL16-1B-13H-1	36	42.08	22.63	0.99
37.226	DCH-CHL16-1B-13H-2	4.5	42.28	22.61	0.99
37.386	DCH-CHL16-1B-13H-2	20.5	42.48	22.39	0.99
37.541	DCH-CHL16-1B-13H-2	36.5	42.68	22.47	1.00
37.686	DCH-CHL16-1B-13H-2	51	42.86	22.70	1.00
37.863	DCH-CHL16-1B-13H-2	83.5	43.09	22.51	1.00
38.024	DCH-CHL16-1B-13H-2	102.5	43.30	22.65	1.00
38.186	DCH-CHL16-1B-13H-3	8.5	43.50	22.46	0.99
38.343	DCH-CHL16-1B-13H-3	24.5	43.69	22.25	1.00
38.503	DCH-CHL16-1B-13H-3	40.5	43.89	22.29	1.00
38.661	DCH-CHL16-1B-13H-3	56.5	44.09	22.23	1.00
38.817	DCH-CHL16-1B-13H-3	72.5	44.28	22.22	1.00
38.977	DCH-CHL16-1B-13H-3	88.5	44.48	22.28	1.00
39.128	DCH-CHL16-1B-13H-3	116.5	44.67	22.64	0.99
39.287	DCH-CHL16-1A-15H-1	68.5	44.87	22.55	1.00
39.442	DCH-CHL16-1A-15H-1	84.5	45.06	22.30	0.99
39.602	DCH-CHL16-1A-15H-1	100.5	45.25	22.31	0.99
39.952	DCH-CHL16-1A-15H-2	6.5	45.69	22.52	0.99
40.099	DCH-CHL16-1A-15H-2	23.5	45.89	22.74	0.99
40.259	DCH-CHL16-1A-15H-2	39.5	46.09	22.42	0.99
40.419	DCH-CHL16-1A-15H-2	55.5	46.29	22.95	0.99
40.569	DCH-CHL16-1B-14H-2	83.5	46.48	23.16	0.99
40.729	DCH-CHL16-1B-14H-2	99.5	46.68	23.16	0.99
40.894	DCH-CHL16-1B-14H-3	5	46.88	23.15	0.99
41.054	DCH-CHL16-1B-14H-3	21	47.09	23.37	0.99
41.214	DCH-CHL16-1B-14H-3	37	47.28	22.74	0.99
41.374	DCH-CHL16-1B-14H-3	53	47.49	23.54	0.99
41.534	DCH-CHL16-1B-14H-3	69	47.68	23.26	0.99
41.71	DCH-CHL16-1A-16H-1	15	47.90	22.76	0.99
41.85	DCH-CHL16-1A-16H-1	29	48.07	23.36	0.99
42.01	DCH-CHL16-1A-16H-1	45	48.27	23.01	0.99
42.17	DCH-CHL16-1A-16H-1	61	48.47	22.57	0.99
42.33	DCH-CHL16-1A-16H-1	77	48.68	22.43	0.99
42.49	DCH-CHL16-1A-16H-1	93	48.87	22.38	0.99
42.65	DCH-CHL16-1A-16H-1	109	49.07	22.51	0.99
42.81	DCH-CHL16-1A-16H-1	125	49.27	22.29	0.99
42.971	DCH-CHL16-1B-15H-1	33.5	49.48	22.54	0.99
43.284	DCH-CHL16-1B-15H-1	65.5	49.86	22.52	0.99
43.444	DCH-CHL16-1B-15H-1	81.5	50.06	22.29	0.99
43.599	DCH-CHL16-1B-15H-1	97.5	50.26	22.45	0.99
43.759	DCH-CHL16-1B-15H-1	113.5	50.47	22.43	0.99
43.919	DCH-CHL16-1B-15H-1	129.5	50.67	22.37	0.99
44.077	DCH-CHL16-1B-15H-1	146.5	50.87	22.91	0.99

44.229	DCH-CHL16-1B-15H-2	17.5	51.06	23.30	0.99
44.394	DCH-CHL16-1B-15H-2	34	51.27	22.77	0.99
44.55	DCH-CHL16-1B-15H-2	55	51.46	22.78	0.99
44.7	DCH-CHL16-1B-15H-2	70	51.66	23.14	0.99
44.869	DCH-CHL16-1A-17H-1	27	51.87	22.74	0.99
45.186	DCH-CHL16-1A-17H-1	59	52.26	22.53	0.98
45.326	DCH-CHL16-1A-17H-1	73	52.43	22.33	0.98
45.496	DCH-CHL16-1A-17H-1	93.5	52.64	22.39	0.73
45.656	DCH-CHL16-1A-17H-1	109.5	52.84	22.68	0.60
45.803	DCH-CHL16-1B-16H-1	16	53.03	22.86	0.93
45.963	DCH-CHL16-1B-16H-1	32	53.23	22.82	0.85
46.128	DCH-CHL16-1B-16H-2	16	53.42	22.90	0.99
46.288	DCH-CHL16-1B-16H-2	32	53.63	23.03	0.99
46.448	DCH-CHL16-1B-16H-2	48	53.83	22.77	0.83
46.628	DCH-CHL16-1B-16H-2	72	54.05	22.96	0.78
46.773	DCH-CHL16-1B-16H-2	86.5	54.24	22.82	0.77
46.929	DCH-CHL16-1B-16H-2	104	54.43	22.85	0.99
47.078	DCH-CHL16-1B-16H-3	6	54.62	22.77	0.99
47.544	DCH-CHL16-1B-16H-3	56	55.20	21.71	0.89
47.704	DCH-CHL16-1B-16H-3	72	55.40	21.99	0.41
47.864	DCH-CHL16-1B-16H-3	88	55.61	21.95	0.82
48.025	DCH-CHL16-1A-18H-1	44	55.82	22.73	0.54
48.183	DCH-CHL16-1A-18H-1	60	56.00	21.42	0.99
48.338	DCH-CHL16-1A-18H-1	75.5	56.20	21.89	0.87
48.495	DCH-CHL16-1A-18H-1	91.5	56.40	21.65	0.66
48.656	DCH-CHL16-1A-18H-1	109	56.60	21.76	0.77
48.814	DCH-CHL16-1A-18H-1	125	56.79	22.02	0.42
48.977	DCH-CHL16-1B-17H-1	24	57.00	22.04	0.27
49.157	DCH-CHL16-1B-17H-1	42	57.23	22.47	0.77
49.467	DCH-CHL16-1B-17H-1	75.5	57.62	21.89	0.26
49.622	DCH-CHL16-1B-17H-2	15.5	57.81	22.01	0.35
49.782	DCH-CHL16-1B-17H-2	31.5	58.01	21.99	0.33
49.942	DCH-CHL16-1B-17H-2	47.5	58.21	21.95	0.24
50.102	DCH-CHL16-1B-17H-2	63.5	58.41	22.01	0.26
50.262	DCH-CHL16-1B-17H-3	11.5	58.61	22.06	0.32
50.422	DCH-CHL16-1B-17H-3	27.5	58.80	22.03	0.29
50.58	DCH-CHL16-1B-17H-3	43.5	59.00	21.72	0.29
50.74	DCH-CHL16-1B-17H-3	59.5	59.20	20.92	0.58
50.92	DCH-CHL16-1B-17H-3	77.5	59.43	20.70	0.99
51.08	DCH-CHL16-1B-17H-3	93.5	59.63	21.82	0.25
51.245	DCH-CHL16-1B-17H-3	110.5	59.84	21.62	0.34
51.425	DCH-CHL16-1A-19H-1	76.5	60.07	21.01	0.40
51.51	DCH-CHL16-1A-19H-1	85	60.18	21.45	0.40
51.67	DCH-CHL16-1A-19H-1	101	60.38	21.41	0.49
51.83	DCH-CHL16-1A-19H-1	117	60.58	21.95	0.35
51.99	DCH-CHL16-1A-19H-1	133	60.79	21.95	0.39
52.15	DCH-CHL16-1A-19H-1	149	60.99	21.86	0.51
52.304	DCH-CHL16-1B-18H-2	15	61.18	21.82	0.37

52.464	DCH-CHL16-1B-18H-2	31	61.38	21.80	0.36
52.624	DCH-CHL16-1B-18H-2	47	61.58	21.72	0.39
52.789	DCH-CHL16-1B-18H-2	63.5	61.78	21.94	0.32
52.96	DCH-CHL16-1B-18H-2	81	62.00	21.67	0.30
53.116	DCH-CHL16-1B-18H-2	97	62.20	21.38	0.48
53.278	DCH-CHL16-1B-18H-2	115	62.40	21.67	0.45
53.449	DCH-CHL16-1B-18H-3	16	62.62	21.67	0.55
53.616	DCH-CHL16-1B-18H-3	35	62.83	22.03	0.44
53.776	DCH-CHL16-1B-18H-3	51	63.03	22.25	0.57
53.942	DCH-CHL16-1A-20H-1	15	63.24	22.29	0.54
54.102	DCH-CHL16-1A-20H-1	31	63.44	22.79	0.37
54.262	DCH-CHL16-1A-20H-1	47	63.64	22.31	0.44
54.418	DCH-CHL16-1A-20H-1	63	63.84	22.34	0.55
54.575	DCH-CHL16-1A-20H-1	79	64.04	22.43	0.66
54.732	DCH-CHL16-1A-20H-1	95	64.24	21.50	0.97
54.877	DCH-CHL16-1A-20H-1	109.5	64.43	22.26	0.75
55.052	DCH-CHL16-1B-19H-1	11.5	64.64	22.45	0.50
55.212	DCH-CHL16-1B-19H-1	27.5	64.84	22.04	0.55
55.372	DCH-CHL16-1B-19H-1	43.5	65.04	21.98	0.71
55.532	DCH-CHL16-1B-19H-1	59.5	65.23	21.84	0.97
55.689	DCH-CHL16-1B-19H-2	4.5	65.42	21.95	0.82
55.849	DCH-CHL16-1B-19H-2	20.5	65.64	22.69	1.00
56.009	DCH-CHL16-1B-19H-2	36.5	65.83	22.85	0.92
56.169	DCH-CHL16-1B-19H-2	52.5	66.04	22.88	0.97
56.329	DCH-CHL16-1B-19H-2	68.5	66.24	22.94	0.99
56.49	DCH-CHL16-1B-19H-3	4.5	66.43	22.11	0.69
56.651	DCH-CHL16-1B-19H-3	21.5	66.64	22.41	0.84
56.945	DCH-CHL16-1B-19H-3	53.5	66.99	22.71	0.73
57.105	DCH-CHL16-1B-19H-3	69.5	67.20	23.30	0.87
57.261	DCH-CHL16-1A-21H-1	29.5	67.40	22.59	0.37
57.421	DCH-CHL16-1A-21H-1	45.5	67.60	22.67	0.64
57.574	DCH-CHL16-1A-21H-1	61.5	67.78	22.91	0.56
57.729	DCH-CHL16-1A-21H-1	77.5	67.97	23.36	0.45
57.889	DCH-CHL16-1A-21H-1	93.5	68.17	22.83	0.71
58.049	DCH-CHL16-1A-21H-1	109.5	68.37	22.47	0.67
58.209	DCH-CHL16-1A-21H-1	125.5	68.57	22.73	0.63
58.369	DCH-CHL16-1A-21H-1	141.5	68.77	22.64	0.64
58.533	DCH-CHL16-1A-21H-2	6.5	68.99	22.74	0.85
58.816	DCH-CHL16-1A-21H-2	38.5	69.34	22.75	0.51
58.976	DCH-CHL16-1A-21H-2	54.5	69.54	22.84	0.39
59.136	DCH-CHL16-1A-21H-2	70.5	69.74	22.75	0.57
59.309	DCH-CHL16-1A-21H-2	88	69.96	22.85	0.47
59.455	DCH-CHL16-1B-20H-2	53	70.13	22.84	0.45
59.612	DCH-CHL16-1B-20H-3	3.5	70.33	23.18	0.54
59.766	DCH-CHL16-1B-20H-3	19.5	70.53	22.80	0.72
59.937	DCH-CHL16-1B-20H-3	45	70.73	22.91	0.91
60.097	DCH-CHL16-1B-20H-3	61	70.93	22.74	0.73
60.257	DCH-CHL16-1B-20H-3	77	71.14	22.54	0.88

60.417	DCH-CHL16-1B-20H-3	93	71.34	22.81	0.98
60.577	DCH-CHL16-1B-20H-3	109	71.55	22.63	0.99
60.89	DCH-CHL16-1A-22H-2	35.5	71.94	22.92	0.99
61.043	DCH-CHL16-1A-22H-2	51.5	72.13	22.67	1.00
61.354	DCH-CHL16-1B-21H-1	13.5	72.51	22.68	0.87
61.514	DCH-CHL16-1B-21H-1	29.5	72.71	22.68	0.77
61.674	DCH-CHL16-1B-21H-1	45.5	72.91	23.24	0.95
61.834	DCH-CHL16-1B-21H-1	61.5	73.12	23.38	0.91
62.009	DCH-CHL16-1B-21H-2	8	73.33	23.03	0.80
62.309	DCH-CHL16-1B-21H-2	47.5	73.71	23.18	0.98
62.477	DCH-CHL16-1B-21H-2	66	73.91	23.65	0.99
62.659	DCH-CHL16-1B-21H-3	4.5	74.13	23.28	0.99
62.784	DCH-CHL16-1B-21H-3	17	74.28	23.30	0.93
62.959	DCH-CHL16-1B-21H-3	34.5	74.50	22.77	0.91
63.119	DCH-CHL16-1B-21H-3	50.5	74.70	22.38	0.87

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