

Supplementary File 3. Sequence data overview from raw sequence files to high-quality sequences used in downstream analyses for all sampling stations of the three eddies (CE\_2019\_19N\_18W, CE\_2019\_18N\_20W CE\_2019\_14N\_25W) under study and the two reference stations (CVOO, Cape Blanc).

Sample	input	filtered	Denoised & replicated F	Denoised & replicated R	merged	ASVs postCC	Reads postCC	target ASVs	target reads
Reference_CB_DCM	475787	470976	466333	468312	456607	2902	456537	2776	353429
Reference_CB_Sub-DCM	213818	212602	210374	210602	204126	2206	204126	2024	151117
Reference_CB_OMZ	344048	342806	339644	339800	331043	2642	331040	2241	289156
Reference_CVOO_DCM	431624	427931	422936	424494	408719	2869	408278	2663	313270
Reference_CVOO_Sub-DCM	576285	571304	563376	566185	547876	3902	547717	3390	427502
Reference_CVOO_OMZ	472313	466262	459571	461981	444955	3322	444814	2979	375265
CE_2019_14N_25W(1)_DCM	834786	831510	828185	826625	811576	2385	811020	2077	608278
CE_2019_14N_25W(1)_Sub-DCM	1661594	1656719	1648853	1646930	1621859	6837	1621394	5612	1261983
CE_2019_14N_25W(1)_OMZ	1237803	1234433	1229628	1227291	1212281	5208	1211696	4582	831732
CE_2019_14N_25W(2)_DCM	445733	441582	437651	439261	430041	1846	429931	1657	353477
CE_2019_14N_25W(2)_Sub-DCM	613266	607907	600322	604049	583035	3443	582987	3030	465946
CE_2019_14N_25W(2)_OMZ	650835	645455	637722	640191	621200	4347	621055	3988	532435
CE_2019_14N_25W(3)_Sub-DCM	469061	465516	460487	462346	450693	2791	450629	2636	333803
CE_2019_14N_25W(3)_DCM	733129	726492	720504	722933	711737	1918	710829	1482	525226
CE_2019_14N_25W(3)_OMZ	630749	625437	617288	620394	600984	4257	600918	3963	487370
CE_2019_18N_20W(1)_DCM	372102	367511	363631	365289	356048	1959	356045	1896	279385
CE_2019_18N_20W(1)_Sub-DCM	510256	506621	502708	503965	493509	1943	493507	1782	411001
CE_2019_18N_20W(1)_OMZ	507680	503883	501076	502095	495656	1907	495617	1875	439518
CE_2019_18N_20W(2)_DCM	397224	393562	390844	391622	383490	1348	383003	1256	251667
CE_2019_18N_20W(2)_Sub-DCM	537267	534180	529620	531745	517864	2181	517785	1833	441060
CE_2019_18N_20W(2)_OMZ	615186	610640	605233	606707	590395	3040	590333	2782	498435
CE_2019_18N_20W(3)_DCM	528186	521919	517826	519624	508093	1929	508042	1886	374481
CE_2019_18N_20W(3)_Sub-DCM	465780	462688	457076	460029	448571	2191	448447	1990	380788
CE_2019_18N_20W(3)_OMZ	529856	526198	522490	523397	513969	1935	513894	1666	425208
CE_2019_18N_20W(4)_DCM	313079	309563	307087	307823	301376	1382	301260	1324	214045
CE_2019_18N_20W(4)_Sub-DCM	522929	519771	515496	517490	506094	2165	506049	1743	418786
CE_2019_18N_20W(4)_OMZ	513248	510053	502586	508240	495312	1304	495312	1136	439952
CE_2019_19N_18W_DCM	576406	572271	569431	570103	562554	1359	562216	1264	456548
CE_2019_19N_18W_Sub-DCM	176515	175039	173344	173610	169331	1682	169329	1498	131108
CE_2019_19N_18W_OMZ	310076	303304	300728	301071	287267	2436	287237	2356	237637