

2020 Marine Seismic Project*		Study Size	Units	CO ₂ e (mt/unit)	CO ₂ (mt/unit)	CH ₄ (g/unit)	N ₂ O (g/unit)	SOx (mt/unit)	NOx (mt/unit)
1	MSGBC Coring	135	Cores	1.10	1.09	19.20	30.96	0.0035	0.0193
2	Nigeria Coring	341	Cores	0.95	0.94	41.20	57.59	0.0030	0.0167
3	Para_Maranhao 2D	2745	km	0.47	0.47	14.12	22.78	0.0015	0.0117
4	Argentina Basin (111 113) 2D	1951	km	0.55	0.54	16.53	26.65	0.0019	0.0149
5	Argentina Basin CAN102 2D	3042	km	0.56	0.55	16.81	27.11	0.0019	0.0151
6	Potiguar 2D	3387	km	0.70	0.69	20.97	33.81	0.0022	0.0173
7	Nigeria MBSS Multibeam	18038	km ²	0.02	0.02	0.78	1.09	0.0002	0.0006
8	SN19-UDO 3D	3526	km ²	1.65	1.63	49.44	79.75	0.0052	0.0408
9	Gambito UDW20 3D	3308	km ²	2.11	2.08	63.22	101.97	0.0066	0.0522
10	Santos 3D (COSL)	3030	km ²	2.5	2.46	74.68	120.45	0.0086	0.0673
11	Malvinas 3D Phase 2	2325	km ²	2.52	2.48	75.22	121.32	0.0079	0.0621
12	OPU NORD 20 3D	2338	km ²	2.63	2.59	78.56	126.70	0.0083	0.0648
13	Santos 3D Phase 3	865	km ²	2.64	2.60	78.94	127.32	0.0091	0.0712
14	AM20	6034	km ²	2.85	2.80	85.09	137.25	0.0089	0.0702
15	Malvinas 3D Phase 1	14422	km ²	3.24	3.19	96.81	156.15	0.0102	0.0799
16	Santos 3D (SCF)	1574	km ²	3.31	3.26	98.95	159.59	0.0104	0.0817
17	Campos 3D	2403	km ²	3.95	3.89	118.04	190.39	0.0124	0.0974
18	Engagement OBN	2944	km ²	6.80	6.70	203.40	328.07	0.0214	0.1679

* Included in the emissions reported for each marine survey above are those emissions related to mobilization as well as the support vessels used in the survey.

2020 Land Seismic Project	Study Size	Units	CO ₂ e (mt/unit)	CO ₂ (mt/unit)	CH ₄ (g/unit)	N ₂ O (g/unit)	2020 Airborne Seismic Project	Study Size	Units	CO ₂ e (mt/unit)	CO ₂ (mt/unit)	CH ₄ (g/unit)	N ₂ O (g/unit)		
19	Kuukpik 3D Phase II	619.007	km ²	9.45	9.31	210.64	428.75	23	ABI Horus I	124500	km ²	.0028	0.0028	0.0003	0.0850
20	South Halfway 3D	86	km ²	3.27	3.22	358.84	123.94	Emissions calculations were done based upon guidance provided by an external environmental consultant using the following: For GHG: EPA Simplified GHG Emissions Calculator, Version 6, EPA Center for Corporate Climate Leadership, August 2020. For NOx: EMEP/EEA Air Pollutant Emission Inventory Guidebook 2016, European Environment Agency, NOx factors from Table 3-1 (Tier 1 Emissions Factors for Ships Using Bunker Fuel Oil) and Table 3-2 (Tier 1 Emissions Factors for Ships using Marine Diesel Oil (MDO) and Marine Gas Oil (MGO)). For SOx: Marine Fuel specification: Chevron Global Marine Products (June 2012) and fuel sulfur content. IMO Regulation 14, Resolution MEPC.280(70) - global cap outside of emission control areas 0.5% on and after 1 January 2020.							
21	Ravenclaw 3D	104	km ²	2.20	2.16	307.93	87.62								
22	Voyager 3D*	475	km ²	0.02	0.02	10.36	0.38								

*For Voyager: Front end work, including permitting and positioning activities, were carried out in 2020. Recording is set to commence in Q4 2021.

