

TABLE DR1. LOCATION AND BRIEF DESCRIPTION OF SAMPLES

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Sample No.	CARBONACEOUS SUBSTANCES Oklo, Republic of Gabon	Description
1	From sandstone in contact with reactor 16	Mixture of bitumen and kerogen residue. C > 90 wt %.
2	From a nodule inside reactor 16	Two intermixed generations of bitumen—both black. C > 85 wt %.
3	Inside core of reactor 16	Two intermixed generations of bitumen—brittle black and gray.
4	60 m from reactor 9	Mixture of bitumen and kerogen residues.
5	Inside reactor 9	Mixture of bitumens—brittle black and gray.
6	Edge of reactor 9	Mixture of bitumens—all black.
7	1 m from edge of reactor 9	Bitumen and kerogen residue.
8	8 km from reactors	Highly solidified, single-phase black bitumen, vitreous. C > 90 wt %.
	SHUNGITE Russian Karelia	
9	Shungskoe deposit, old adit lat 62E36'00"N, long 34E55'50"E	Semimat shungite-bearing rock from 3-m-thick bed; faintly laminated. C = 56.7 wt %.
10	Shungskoe deposit, old adit lat 62E36'00"N, long 34E55'50"E	Lustrous shungite, from 10-cm-thick layer hosted by semimat shungite-bearing rock and overlain by a dolomite megaconcretion. C = 98.4 wt %.
11	Decknavolok lat 62E12'54"N, long 33E49'55"E	Sooty shungite in volcanoclastic siltstone, 15 m from contact with gabbroic sill.
12	24 km southeast of Shunga lat 62E33'00"N, long 35E24'00"E	Shungite-bearing siltstone with voids 1-2 mm thick, 3-5 mm long, lined with thin film of sooty shungite.
	BLACK TUFF Sudbury, Canada	
13	South Range UTM (Zone 17) E485227, N152648	Sheared, dark gray impact breccia, < 1% C.
14	High Falls, Dowling Township UTM (Zone 17) E470773, N160077	Dark gray impact breccia, < 1% C.
15	North of Capreol UTM (Zone 17) E505599, N175840	Silicified, light gray, fine-grained impact breccia, < 1% C.

Note: UTM = Universal Transverse Mercator coordinates.