

Kimberlite PNE DSS

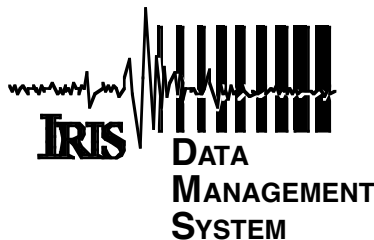
Peaceful Nuclear Explosion, Soviet Deep Seismic Sounding Project

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Assembled Data Set 03-010



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Profile KIMBERLITE

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Digitization, editing, and delivery of this data sets to IRIS is sponsored by grants from the Defense Threat Reduction Agency (DTRA01-01-C-0081; 75% of funding) and NSF (EAR-0092744; 25%).

Data summary

Location: town Khanty-Mansyisk — river Lena (Figure 1)

Acquired by Center GEON, 1979

Profile length: approximately 3100 km

3 PNEs and 36 chemical explosions of 3000-5000 kg

Recording systems: Portable 3-component analogue systems TAIGA and
CHEREPAKHA, 1-Hz sensors

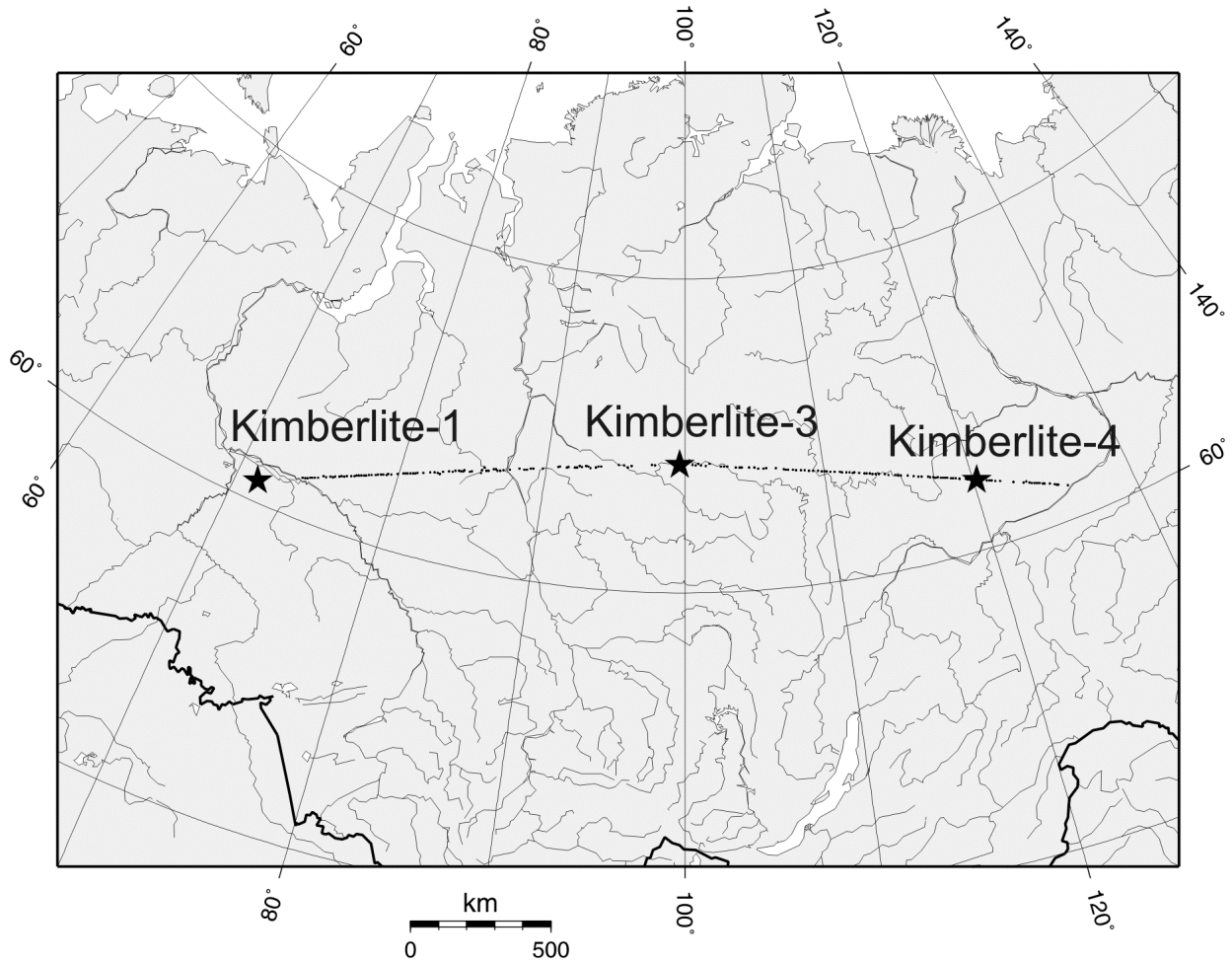


Figure 1 Location map of profile KIMBERLITE in Siberia. Stars indicate the PNEs, small triangles are 3-component recording sites.

Data format

Data format is identical to that of other PNE projects delivered earlier. The data are provided in standard SEG-Y format using IBM floating point representation of data values. Geographic coordinates of shots and receivers (in degrees), and offsets (in meters) are loaded in data headers. Recording station numbers (numbering starting from the West, Figure 1) are loaded in SEG-Y headers as CHANNEL, and the FFIDs correspond to shot numbers. Each data file contains a single component of recordings from one shot. File names follow the following convention:

```
kimb-<shot_number>-<component_index>.seg-y
```

where `shot_number` is the number of the shot. Shot numbers are 1,3,4 for the PNEs (KIMBERLITE-1, 3, and 4, respectively; Figure 1). For chemical shots, shot numbers correspond to the number of the nearest receiver. The `component_index` is 'v' for the vertical (upward), 'r' for radial (directed away from the shot), and 't' for the transverse (directed to the right when looking away from the shot point).

-rw-rw-r-- 1 morozov morozov 0 Oct 27 17:55 file_list
-rw-rw-r-- 1 morozov morozov 330525 Oct 27 17:52 Kimberlite.pdf

chemical:
total 45244

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-rw-rw-r-- 1 morozov morozov 517848 Oct 27 17:13 kimb-15-t.segy
-rw-rw-r-- 1 morozov morozov 530092 Oct 27 17:13 kimb-15-v.segy
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chemical/plots:

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pnes:

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-rw-rw-r--	1	morozov	morozov	25134596	Oct 27 17:13	kimb-2-t.segy
-rw-rw-r--	1	morozov	morozov	25014352	Oct 27 17:13	kimb-2-v.segy
-rw-rw-r--	1	morozov	morozov	21407032	Oct 27 17:13	kimb-3-r.segy
-rw-rw-r--	1	morozov	morozov	21527276	Oct 27 17:13	kimb-3-t.segy
-rw-rw-r--	1	morozov	morozov	21767764	Oct 27 17:13	kimb-3-v.segy
drwxrwxr-x	2	morozov	morozov	4096	Oct 27 17:10	plots

pnes/plots:

total 23820

-rw-rw-r--	1	morozov	morozov	4076772	Oct 27 17:13	kimb-1-r.ps
-rw-rw-r--	1	morozov	morozov	4076770	Oct 27 17:13	kimb-1-t.ps
-rw-rw-r--	1	morozov	morozov	4076770	Oct 27 17:13	kimb-1-v.ps
-rw-rw-r--	1	morozov	morozov	4041234	Oct 27 17:13	kimb-3-r.ps
-rw-rw-r--	1	morozov	morozov	4041359	Oct 27 17:13	kimb-3-t.ps
-rw-rw-r--	1	morozov	morozov	4041218	Oct 27 17:13	kimb-3-v.ps