

with oxide of iron; many small mineral particles—mica, magnetite, feldspar, quartz, and hornblende. These mineral particles appeared wind-blown, and had probably been carried to this area by the Harmattan and trade-winds.

No. 4.—Station VII. February 24th. Lat. 23° 23' N., Long. 31° 31' W. Depth, 2750 fathoms. Bottom temperature, 2°·0 C. Chemical composition :

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|---|--------------------------|--------------|
| Loss on ignition after drying at 230° F..... | 7·45 | |
| Portion soluble in hydrochloric acid = 52·98. | Alumina..... | 6·40 |
| | Ferric oxide..... | 15·42 |
| | Calcium phosphate..... | Trace |
| | Calcium sulphate..... | 1·60 |
| | Calcium carbonate..... | 4·11 |
| | Magnesium carbonate..... | 1·20 |
| Portion insoluble in hydrochloric acid = 39·57. | Silica..... | 24·25 |
| | Alumina..... | 6·00 |
| | Ferric oxide..... | 2·54 |
| | Lime..... | 1·06 |
| | Magnesia..... | 0·64 |
| | Silica..... | 29·33 |
| | | <hr/> 100·00 |

A red clay, containing much amorphous clayey matter, and many small mineral particles—quartz, mica, hornblende, feldspar, magnetic iron.—A few broken pieces of pelagic foraminifera.

No. 5.—Station VIII. February 25th. Lat. 23° 12' N., Long. 32° 56' W. Depth, 2800 fathoms. Bottom temperature, 2°·0 C. Chemical composition :

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|---|--------------------------|--------------|
| Loss on ignition after drying at 230° F..... | 8·95 | |
| Portion soluble in hydrochloric acid = 63·01. | Alumina..... | 8·95 |
| | Ferric oxide..... | 9·70 |
| | Calcium phosphate..... | Large trace |
| | Calcium sulphate..... | 2·24 |
| | Calcium carbonate..... | 16·42 |
| | Magnesium carbonate..... | 2·70 |
| Portion insoluble in hydrochloric acid = 28·04. | Silica..... | 23·00 |
| | Alumina..... | 4·20 |
| | Ferric oxide..... | 2·10 |
| | Lime..... | 0·89 |
| | Magnesia..... | 0·60 |
| | Silica..... | 20·25 |
| | | <hr/> 100·00 |