

Silica,	50·85
Peroxide of iron,	24·40
Alumina,	8·92
Protoxide of iron,	1·66
Lime,	1·26
Magnesia,	3·13
Potash,	4·21
Soda,	0·25
Water,	5·55
Manganese,	trace
	100·28

NOTE.—This substance contained 15 per cent. of white, pale grey, and yellow casts, 35 per cent. pale green casts, 45 per cent. of dark green particles, together with 5 per cent. of mineral particles and siliceous organisms (J. M.).

86. GLAUCONITE.—Station 164b.

Lat. 34° 13' S., long. 151° 38' E., 410 fathoms (Sipöcz).

- I. 0·7312 gm. of substance, fused with the carbonates of soda and potash, gave 0·0416 gm. of water, 0·3788 gm. of silica, 0·1896 gm. of peroxide of iron, 0·0634 gm. of alumina, trace of manganese, 0·0093 gm. of lime, and 0·0618 gm. of pyrophosphate of magnesia = 0·02227 gm. of magnesia.
- II. 0·6828 gm. of substance, treated with hydrofluoric and sulphuric acids, gave 0·0450 gm. of the chlorides of potash and soda, 0·1367 gm. of chloroplatinate of potash, corresponding to 0·0417 gm. of chloride of potash = 0·02634 gm. of potash, and 0·0033 gm. of chloride of soda = 0·00175 gm. of soda.
- III. 0·3205 gm. of substance, treated with hydrofluoric and sulphuric acids, required for oxidation 0·85 c.c. permanganate of potash (1 c.c. permanganate of potash = 0·0058355 gm. of protoxide of iron), corresponding to 0·00496 gm. of protoxide of iron.

Silica,	51·80
Peroxide of iron,	24·21
Alumina,	8·67
Protoxide of iron,	1·54
Lime,	1·27
Magnesia,	3·04
Potash,	3·86
Soda,	0·25
Water,	5·68
Manganese,	trace
	100·32

NOTE.—This substance contained 10 per cent. of white, pale grey, and yellow casts, 25 per cent. of pale green casts, 60 per cent. of dark green casts, together with 5 per cent. of mineral particles and siliceous organisms (J. M.).

87. GLAUCONITE.—Station 164b.

Lat. 34° 13' S., long. 151° 38' E., 410 fathoms (Sipöcz).

- I. 0·7543 gm. of substance, fused with the carbonates of soda and potash, gave 0·0435 gm. of water, 0·4147 gm. of silica, 0·1777 gm. of peroxide of iron, 0·0626 gm. of alumina, trace of manganese, 0·0098 gm. of lime, and 0·0575 gm. of pyrophosphate of magnesia = 0·02072 gm. of magnesia.
- II. 0·7413 gm. of substance, treated with hydrofluoric and sulphuric acids, gave 0·0432 gm. of the chlorides of potash and soda, 0·1292 gm. of chloroplatinate of potash, corresponding to 0·0394 gm. of chloride of potash = 0·0249 gm. of potash, and 0·0038 gm. of chloride of soda = 0·0020 gm. of soda.
- III. 0·2987 gm. of substance, treated with hydrofluoric and sulphuric acids, required for oxidation 1 c.c. permanganate of potash (1 c.c. permanganate of potash = 0·0058355 gm. of protoxide of iron), corresponding to 0·0058355 gm. of protoxide of iron.