ILLUSTRATIONS OF THE METEOROLOGY OF INDIA AND HIGH ASIA.

BY

HERMANN DE SCHLAGINTWEIT-SAKÜNLÜNSKI.

I. TEMPERATURE OF THE AIR: 2, THE ISOTHERMAL LINES OF THE YEAR (SEA-LEVEL), FOR INDIA AND THE ARCHIPELAGO.

Absolute Extremes in shade,

or isolated exceptional Minima and Maxima.

Along the shores.								In the Interior.							
Bengal, Ceylon.				Bengal, Ceylon.				Hindostán, Pánjáb.				Hindostán, Pánjáb.			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
J. 50	78	48	83	J. 74	94	71	86	J. 39	85	38	69	J. 33	102	60	97
F. 52	81	49	88½	A. 76	92	75	88½	F. 44½	90½	42	81	A. 37	96½	85	100
M. 61	90	71	88	S. 72	92	73	85	M. 51	99	46	85	S. 67	96½	85	96
A. 68	85. 73	89½	O. 70	89	72	84	A. 61½	104½	53	96	S. 57	94½	52	85	
M. 74	106	70	88	N. 70	87	71	83½	M. 67½	108	66	105	N. 46	99½	42	84
J. 75	105	78	87	D. 51	80	69	85	J. 72½	116½	68	120	D. 39	76	32.	76

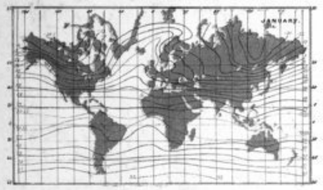
Mean Insolations,

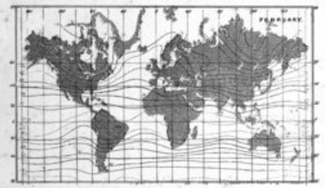
or average of a Thermometer exposed to the Sun's rays.

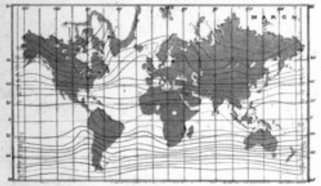
Along the shores.								In the Interior.							
Bengal, Ceylon.				Bengal, Ceylon.				Hindostán, Pánjáb.				Hindostán, Pánjáb.			
J.	130	109		J.	133	98		J.	95½	95		J.	111½	120	
F.	132	111		A.	128	102		F.	98½	98		A.	109	112	
M.	135	111		S.	136	102		M.	111½	105		S.	111	108	
A.	135	105		O.	136	108		A.	121½	114		O.	108½	110	
M.	134	98		N.	128	107		M.	115½	120		N.	101½	96	
J.	133	96		D.	124	106		J.	120.0	125		D.	83½	79	

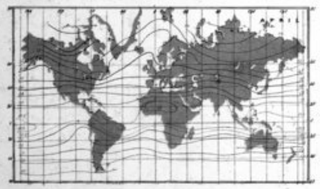
SKETCH THE MONTHLY ISOTHERMAL LINES for the SURFACE OF THE EARTH

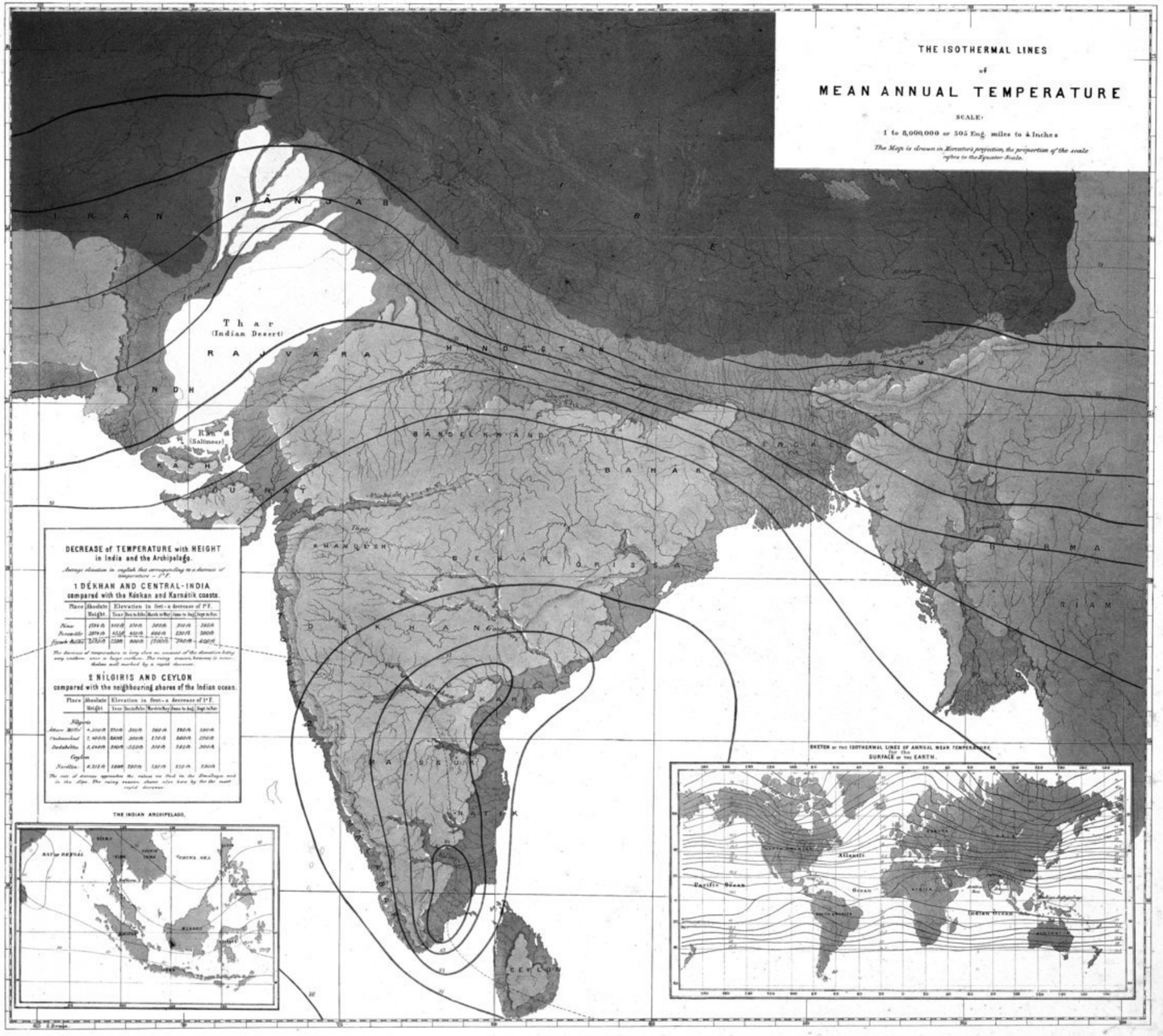
JANUARY to JUNE.





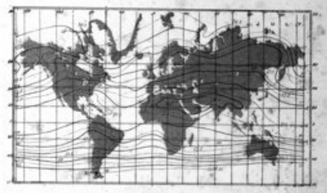


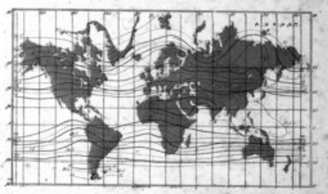


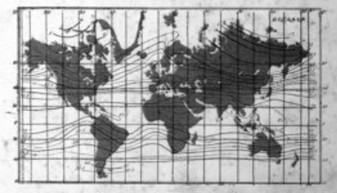


SKETCH OF THE MONTHLY ISOTHERMAL LINES for the SURFACE OF THE EARTH.

JULY to DECEMBER.







Thermic character of the Seasons.

Variation with Latitude. Decrease with Height.

The Cool Season.

Rapid decrease with increasing latitude. *In general less rapid than in the mean of the year.*

The Hot Season.

Hot and dry, Maximum in Central-India. *It considerably varies with the localities in the Dékhan, particularly it is too rapid in Central-India it is too slow.*

The Rainy Season.

Hot and moist, Absolute Maximum in the Pánjáb. *It is every-where remarkably rapid.*

The Autumn.

The variation of temperature with latitude is smallest in this season. *It shows but small deviations from the annual mean and does not corresponds, in this regard, to the slow variation of temperature with latitude.*

Explanation of Colours and Lines.

Colours in the large map.

- (green) *represents low-level land (= shores)*
- (yellow) *the surface covered by highlands and the different mountains, systems (W-India, Cham Ind.)*
- (brown) *represents deserts (= Thar)*
- (white) *" High Asia (= Himálayas)*

Dashed lines.

- *Isothermal lines of India, reduced to the Level of the Sea.*
- *Deviation of the Isothermal Lines of India (Group) High Asia.*
- *Thermic Equator.*
- *Line of the freezing point in the diagrams of the months.*

Rules for Pronunciation.

a, e, i, o, u, as in German and Italian.

ä, ö, ü, as in German.

" above a, e, i, o, u and ü, sign of imperfect formation, similar to the sound of ä, ö, ü, in the e in **bird**.

ai, ei, au, eu (ä, ö and ü) indicates a vowel sound, like a in the English word **a** *in* **man**.

The sign ~ *gives the sound of the T component, mostly combined with* **n** *or* **r** *in* **valley**, *or* **w** *in the German word* **Wasser**.

s *is a soft s as in French, never* **z**.

j and dh are in English.

h after a consonant is an audible aspiration, except in dh, dh and bh dh sounds as in English (thumb), bh as in German (bank).

marks the syllable on which the accent falls, whether the syllable be long or short.

Explanatory Remarks.

The isothermal lines for India are based upon 245 Stations for which the numeric elements are given in the preceding table, and in vol. II of the Results.

All values are calculated from the true daily means for which I found the convenient hours of Sunrise and 4 p. m. to give a very satisfactory combination $\left(\frac{SR + 4^{p}m}{2}\right)$.

In the construction of the lines the correction for the Decrease of temperature with height had to be applied for making them generally comparable.

For Detail compare my memoir in the Transactions of the Royal Society of London. 1863.

Isothermal lines for the year were first published by Humboldt Asie d'Around, Paris 1817, those for the months by Dove, Berl. Acad. 1848.

Leipzig. F. A. Brockhaus