A KEY TO KEITH'S TREATISE ON THE USE OF THE GLOBES

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A key to Keith's Treatise on the use of the globes by W. H. Prior

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W. H. PRIOR

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Trieste

A KEY

TO

KEITH'S TREATISE

ON THE

USE OF THE GLOBES;

CONTAINING THE

ANSWERS TO QUESTIONS

IN THE

NEW AND IMPROVED EDITION OF THAT WORK.

BY

W. H. PRIOR,

INVENTOR OF THE ASTRONOMICON; ALSO OF THE NEW MOVEABLE PLANISPHERE; AUTHOR OF "LECTURES ON ASTRONOMY, ILLUSTRATED BY THE ASTRONOMICON," ETC. ETC.

New Edition.

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PREFACE.

THE Editor of the new edition of Mr. Keith's Treatise on the Use of the Globes, conceiving that a Key, containing the answers to the questions in that valuable work, would tend very considerably to enlarge the sphere of its utility, by affording facilities to the teacher, and rendering it accessible to the private student, presumes to submit the following sheets to their notice, in which he flatters himself that the answers to the several questions will be found as correct as the nature of the subject will allow; and although, generally speaking, it is not to be expected, that latitudes, longitudes, declinations, &c. should be ascertained by means of the globes, to nearer than quarters of degrees, yet it is thought expedient to give them in this key, correct generally to the nearest minute, and, in some important cases, to the nearest second. It will thus furnish the preceptor with accurate information with-

out recurring to other sources; and it will enable him, on all suitable occasions, to show his pupils the value of *correct* knowledge on all such points, as well as how to turn it to account in the construction of maps, and various other useful operations. Judiciously employed, also, this knowledge may serve to excite the love of accuracy. In order to render the Key as perfect as possible, the author has adapted those solutions which are obtained by the aid of the Nautical Almanac to the improved state of that work for the year 1834; which he trusts will be admitted as an additional recommendation to the present undertaking.

Since the preceding Preface was written, Mr. Rowbotham has altered the solutions of such problems as he has introduced into the last edition of Mr. Keith's Treatise on the Globes.

KEY

TO

KEITH'S TREATISE

ON

THE GLOBES.

PROBLEMS ON THE TERRESTRIAL GLOBES.

Problem I.

2. Amsterdam	52°	22′	N.
Archangel	64	34	N.
Barcelona	41	23	N.
Florence	43	47	N.
Gibraltar	36	6	N.
Hamburgh	53	33	N.
Philadelphia	39	57	N.
Quebec	46	47	N.
Rio Janeiro	22	54	S.

3. The latitudes of places being reckoned *from* the equator, all places situated *on* that line are said to have no latitude.

4. The greatest latitude a place can have is 90°; and the only places which can have this latitude are the north and south poles.

Problem II.

2. Riga, Caynsk, Kamtschatka, part of Labrador, &c.

3. Antwerp, Leipsic, Warsaw, Orenburg, Cape Lopatka, S. part of James's Bay, N. point of Newfoundland, &c.

4. Nanking, Nangasaki, Cape Cochrane, Kiusin Isle, N. end of the Gulf of California, Charlestown, Tripoli, &c.

5. St. Domingo, St. Bartholomew Isle, N. part of Isle of Lucca, part of Ladrone Islands.

Problem III.

3. Aberdeen	2°	2′	W.
Alexandria	30	1	E.
Barbadoes	59	38	W.
Bombay	73	2	E.
Botany Bay	151	20	E.
Canton	113	8	E.
Carlscrona	15	39	E.
Cayenne	52	9	W.
Civita Vecchia	11	50	E.

4. The greatest possible longitude is 180°, and places so situated may have their longitude denominated either east or west. Longitude is sometimes reckoned in time; in which case the greatest longitude is twelve hours.

PROBLEM IV.

2. St. Petersburgh, Dongola, &c.

3. Saragossa, Castillon, and Denia, in Spain; Accara in Africa, &c.

4. Philadelphia, Baltimore, Chesapeak Bay, Cuba, Gulf of Darien, Quito, Lima, Canpana Island, &c.

5. *London*,—Answered in Example 3.

Pekin,—Zehol in Chinese Tartary, Palawan Isle, Eastern coast of Borneo, Balli Isle, &c.

Quebec,—Boston, Rhode Island, middle of the Island of St. Domingo, Gulf of Venezuela, Chili, Western coasts of Patagonia, Terra del Fuego, &c.

Dublin,—Seville and Cadiz in Spain, Fez in Africa, and the Island of St. Helena.

Sandwich Islands,—Foggy Cape, *Alaska* in North America, Society Islands, &c.

Pelew Islands,—Western part of Niphon, Sikeki Island, western part of New Guinea, Coffin's Bay, New Holland, &c.

PROBLEM V.

	Latitudes.	Longitudes.
2. Acapulco -	16° 50′ N.	99° 40′ W.
Aleppo -	36 11 N.	37 16 E.
Algiers -	36 47 N.	3 11 E.
Archangel	64 34 N.	39 5 E.
Belfast -	54 35 N.	5 51 W.
Bergen -	60 24 N.	5 26 E.
Cusco -	13 42 S.	71 0 W.
Copenhagen	55 41 N.	12 41 E.
Durazzo -	41 19 N.	19 33 E.