XXIII. Astronomical Observations made by Samuel Holland Esquire, His Majesty's Surveyor General of Lands for the Northern District of North America, for ascertaining the Longitude of several Places in the said District. Communicated by the Astronomer Royal.

Redde, Jan. 20, 1774.

KITTERY POINT, in the province of MAIN, in PISCATAQUA harbour.

Latitude { by refult of repeated observations, of of and fixed *'s, made with } 43° 4′ 27" N.

Observed, with DOLLOND's 12 feet refracting telescope,

Immersion and Emersions of 4's satellites as follow,

Apparent time.

April 11th, an immersion of the 1st, at 15 43 30

27th, same

14 1 43

May 4th, same

The VARIATION of the COMPASS at this place, is 7° 46' West.

PORTSMOUTH,

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FORTSMOUTH, province of NEW HAMPSHIRE.

Latitude { by refult of repeated observations, } 43° 4′ 15" N.

BIRD's astronomical quadrant,

Observed, with DOLLOND's 12 feet refracting telescope,

Immersions and Emersions of 4's satellites as follow,

•			Apparent time.		
1772,		b	/	//	
Sept. 6th, an emersion of	the 2d, at	11	9	20	
18th, fame	ıst,	9	42	35	
Oct. 11th, same	fame,		5	_	
Nov. 3d, same	ſame,			-54	
9th, same	2d,		5 1		
12th, fame	rst,			I	
* 19th, same	ſame,	8	42	41	
23d, immerged entire	ly, 3d			6	
fame, began to emerge,	lame,	9	28	14	
Dec. 4th, an emersion,	2d,	7	50	o	
5th, same,	ist,			44	
The VARIATION of the	COMPASS a				
is 7° 48' West.			•		

All these observations were made by time kept by GRAHAM's time-piece, with a gridiron pendulum, rectified occasionally by equal altitudes of the Sun, corrected agreeably to the tables of M. DE LA LANDE, for the alteration of the declination in the intervals of corresponding observations.

SAMUEL HOLLAND.

XXIV. Obser-

^{*} This satellite in emerging was in conjunction with another, which occasioned such a deception as to render this observation uncertain about 20 seconds sooner than what is marked here.