

# Occultations of Stars by the Moon observed at St. Croix in the West Indies by *Andr. Lang* in 1829, 1830, 1831

(Place of observation Lat.  $17^{\circ} 44' 32''$  North. Long. assumed  $4^h 18^m 44^s$  or  $46^s$  West from Greenwich.)

1829	$\alpha$ Leonis	Imm.	Febr. 17.	$9^h 13^m 33,7^s$	Mean time.	
	$\gamma$ Librae	Imm.	Oct. 1.	$7^h 20^m 23,5^s$	Mean time.	A calm clear serene Evening.
	a Star of 6 or 7Mag.	Imm.	Nov. 28.	$6^h 46^m 29^s$	Mean time.	Vide Astron. Nachr. Nr. 172. page 79.
1830	$\alpha$ Tauri	Imm.	Jul. 15.	$17^h 27^m 52,80^s$	Mean time.	The Occultation of $\alpha$ Tauri by the Moon on the 15 July 1830, which I observed here, has been likewise observed at the following places. Viz: at Göttingen      Vide Astron. Nachr. Nr. 185 at Prague      Vide ———— Nr. 187 at Vienna      Vide ———— Nr. 190 at Cracau      Vide ———— Nr. 200 at Kremsmünster      Vide ———— Nr. 208
1831	$\alpha$ Tauri	Imm.	Jan. 23.	$3^h 23^m 18,25^s$	Mean time.	} A good observation specially at Immersion, and I believe very good at Emersion, probably the Emersion may have taken place near one second earlier, but that I would consider the greatest extent of allowance.
		Emers.		$4^h 26^m 27,40^s$	Mean time.	
	65 Ceti $\xi'$	Imm.	March 16.	$7^h 6^m 0,0^s$	Mean time.	good.
		Em.	between	$7^h 21^m 48^s$ and $7^h 21^m 51^s$	Too uncertain to be depended on.	
	a small Star.	Imm.	Sept. 10.	$8^h 31^m 31,7^s$	Mean time.	Near center of Moons unenlightened Limb.

## Eclipse of the Moon.

1830	Sept. 2.	End of total darkness about $7^h 10^m —^s$	Mean time.
		End of the Eclipse about $8^h 7^m 30^s$	dito.

During the Eclipse observed occultation of a small star. The Immersion took place near the southern Limb of Moon at  $7^h 13^m 41^s,2$  or  $7^h 13^m 42^s,2$  as thin clouds at that moment rendered the observation imperfect. Vide Astron. Nachrichten Nr. 200 page 148.

## Eclipse of the Sun.

1831	February 12.	Observed the End at $3^h 1^m 16^s$	Mean time. A good observation.
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## Immersion and Emersion of Jupiters Satellites.

Mean time.						Mean time.					
$\begin{matrix} h & m & s \end{matrix}$						$\begin{matrix} h & m & s \end{matrix}$					
1829	I	Em.	June 26.	$7^h 54^m 6^s$	Observation indifferent.	1830	I	Em.	Oct. 1.	$6^h 22^m 58^s$	Obs. excellent.
	I	do.	July 19.	$8^h 7^m 22^s$	Obs. good.		II	do.	— 4.	$6^h 39^m 45^s$	do. do.
	II	do.	Aug. 7.	$8^h 6^m 2^s$	do. excellent.		I	do.	— 8.	$8^h 18^m 30^s$	do. good.
	I	do.	Sept. 19.	$6^h 54^m 24^s$	do. favourable.		II	do.	Nov. 5.	$6^h 26^m 2^s$	do. favourable.
1830	I	Imm.	June 29.	$8^h 41^m 46^s$	do. indifferent and uncertain from the near approach to Jupiter.		I	do.	— 16.	$6^h 52^m 37^s$	do. excellent.
	I	Em.	July 15.	$9^h 13^m 59,8^s$	do. good.	1831	I	Imm.	Aug. 3.	$8^h 29^m 4^s$	do. rather uncertain from the near approach to Jupiter.
	I	do.	Aug. 23.	$7^h 47^m 42^s$	do. very good.		I	Em.	Oct. 20.	$7^h 55^m 10^s$	do. tolerable.
	II	do.	Sept. 9.	$9^h 32^m 28,5^s$	do. good.		II	do.	— 30.	$5^h 56^m 17^s$	do. good.

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