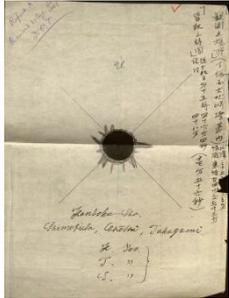
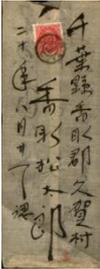
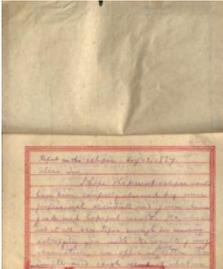
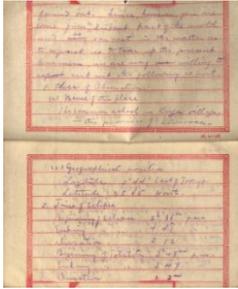
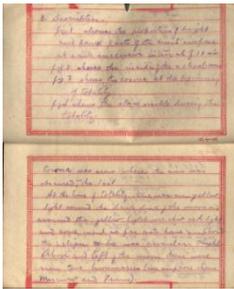
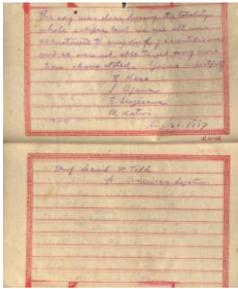
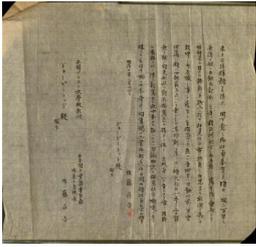
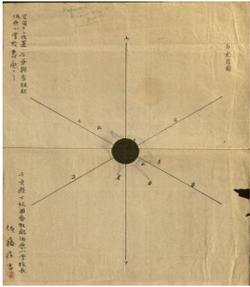
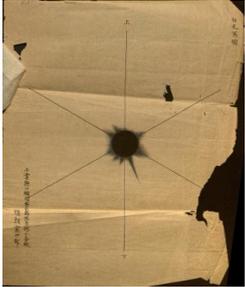
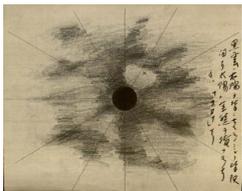
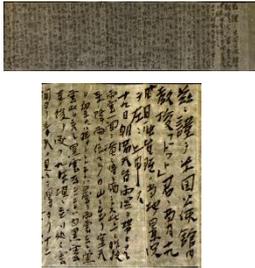


Observation Reports Sent Directly by the Observers to the U.S. Legation.

			
<p align="center">A(1)(2)-1 Kaijo, Chiba Pref.</p>	<p align="center">A-1-2 (Envelope surface)</p>	<p align="center">A-1-3 (Envelope back)</p>	<p align="center">B(3)-1 Katori, Chiba</p>
			
<p align="center">B-1-2</p>	<p align="center">B-1-3 (Envelope surface)</p>	<p align="center">B-1-4 (Envelope back)</p>	<p align="center">B-1-5 (Translated by the Legation?)</p>
			
<p align="center">B-1-6</p>	<p align="center">B-1-7</p>	<p align="center">B-1-8</p>	<p align="center">C(2)-1 Katori, Chiba</p>
			
<p align="center">C-1-2</p>	<p align="center">C-1-3</p>	<p align="center">C-1-4 (Envelope surface)</p>	<p align="center">C-2 Katori, Chiba</p>
			
<p align="center">D(2)-1 Kitaazu, Fukushima</p>	<p align="center">D-1-2 (Envelope surface)</p>	<p align="center">D-1-3 (Envelope back)</p>	<p align="center">D-1-4 (Letter & enlarged portion)</p>

<p>E(2)-1 Nihari, Ibaraki</p>	<p>E-1-2</p>	<p>E-1-3 (Envelope surface)</p>	<p>E-1-4 (Envelope back)</p>
<p>S. Isawa's Report, Personally Handed to Prof. Todd.</p>			
<p>Isawa-1 Minamikanbara, Niigata</p>	<p>Isawa-2</p>	<p>Isawa-3</p>	<p>Isawa-4</p>
<p>Isawa-5</p>	<p>Isawa-6</p>	<p>Isawa-7</p>	<p>Isawa-8</p>
<p>Isawa-9</p>	<p>Isawa-10</p>		

(1) Report A–E: Classified by Prof. Todd.

(2) Reports A, C, D and E: Sent by the U.S. Legation to the Amherst College Observatory on Sept. 16, 1887.

(3) Report B: Forwarded to Prof. Todd at the Shirakawa observation station on Aug. 25, 1887.

Reports on the Duration of Totality Collected by the Ministry of Home Affairs.

Observations near the southern limit of the path of totality.

Observed duration of totality, during Total Eclipse of the Sun, August 19th, 1887.

Observations near the southern limit of the shadow path.

No.	Station, (Town, District & Prov.)	Duration Seconds	Observer.
1.	Matsuyama-mura, Soga, Noto,	16.	Y. Jimbo.
2.	Koki-mura, " " "	33	T. Tsuruya.
3.	Suzugami-mura, Fugahi, " "	38	Y. Okazaki.
4.	Kinzo-mura, " " "	45	S. Ikida.
5.	Nafans-mura, " " "	45	Y. Asari.
6.	Kinzo-mura, " " "	46	K. Sawada.
7.	Shin Com School Suga, " " "	49	K. Myrotani.
8.	Suga County Office " " "	50	T. Nakayama.
9.	Takashima-mura, " " "	54	-----
10.	Urdo-mura, " " "	56	K. Uda.
11.	Rai-mura, " " "	65	U. Matsubara.
12.	Fenbu-mura, " " "	100	M. Ikada.
13.	St of Ida Police office, " " "	108	-----
14.	No. 3, Uta-mura, Nishikubiki, Echigo,	3	G. Washizawa.
15.	No. 106, Aomi-mura, " " "	55	-----
16.	Itoigawa-machi, " " "	58	F. Yoshida.
17.	" " " " " " "	70	I. Ishimura.
18.	No. 808, Iahigawa-yokocho, " " "	72	A. Ikuta.
19.	Itoigawa-yokucho, " " "	100	N. Nakagawa.
20.	Asano-mura, Kamiminocho, Shimano,	30	H. Morita.
21.	Kashwabara, " " "	50	S. Kawari.
22.	Takano-mura, Shinotaki, " " "	58	T. Hoshino.
23.	Shinoi-mura, " " "	60	S. Urano.
24.	" " " " " " "	90	C. Tanaka.

2.

No.	Station (Town, District & Province)	Duration Seconds	Observer.
25.	Ikuu-mura, Agatsuma, Kotesuke,	18	Y. Katakai.
26.	Kosame-mura, " " "	60	S. Machida.
27.	Mayebashi, Higashiguma, " "	64	S. Watanabe.
28.	W. of Agatsuma Po. office " " "	79	S. Matsuzaki.
29.	Agatsuma High School Agatsuma, " "	94	-----
30.	" " " " " " "	99	-----
31.	Kiyoki-mura, Kitakatsushika, Miasahi,	7	S. Sato.
32.	Sakura-shimachi, Imba, Shimosa, not total		Y. Yasunoto.
33.	Haita-machi-mura, Hirasakimura, " "	"	H. Tojo.
34.	Hatsuno-mura, " " "	"	N. Mikada.
35.	Shimohanawa-mura, Higashi Katsuhika, " "	1	M. Noguchi.
36.	Ishikawa-mura, Imba, " "	3	G. Hano.
37.	Katsunuma-mura, Miasa, " "	"	T. Hirai.
38.	Yagoshi-mura, " " "	3	I. Ishibashi.
39.	Hatsunuma-mura, " " "	3	E. Yamanochi.
40.	Mishisomi-mura, Higashi-Katsuhika, " "	3	A. Ishii.
41.	Ishikawa-mura, " " "	5	T. Sakurai.
42.	Shiba-yama P.O. Miasa, " "	9	T. Ohara.
43.	Sofuka-Shinden, Imba, " "	20	K. Katori.
44.	" " " " " " "	25	-----
45.	Yachimata-mura, " " "	25	T. Otaka.
46.	Haranoi-mura, " " "	27	Y. Matsuno.
47.	Ichii Com. school, Setamura, " "	30	Y. Sudo.
48.	Sabuki-mura, " " "	39	M. Urabe.
49.	Matsuno Police Office " " "	37	I. Kihari.
50.	City of Torite, Kitasoma, " "	40	-----
51.	No. 735, Yokohiba-mura, Miasa, " "	45	H. Tamboi.

Near the southern limit of the path of totality.

Near the northern limit of the path of totality.

3.

No.	Station, (Town, District & Province)	Duration Seconds	Observer.
52.	No. 800, Yokohiba-mura, Miasa, Shimosa,	45	K. Hagimoto.
53.	City of Miasa, Minamisoma, " "	47	S. Ieshiki.
54.	Nakanodai-mura, Higashikatsushika, " "	47.5	S. Naito.
55.	Bezaho-mura, Imba, " "	49	F. Kawakubo.
56.	Fakibukuru-mura, " " "	50	F. Suzuki.
57.	Ashiki-mura, Shimohama, " "	51	M. Kawai.
58.	City of Torite, Kitasoma, " "	56	-----
59.	Shibayama-mura, Miasa, " "	64	B. Nogami.
60.	Yoka-ichiba-mura, Sosa, " "	68	S. Akiyama.
61.	Honsodo-mura, Tozetsu, " "	77	K. Yamamura.
62.	Kobori-mura, Kitasoma, " "	89	-----
63.	Irai-mura, Sarushima, " "	95	K. Amaki.
64.	Hugaasaki-machi, Kawachi, Hitachi,	30	I. Wakimura.
65.	" " " " " " "	36	M. Kubota.
66.	Yatabe-machi, Tsukuba, " "	43	K. Sakurai.
67.	Ushiku-mura, Kawachi, " "	72	N. Takano.
68.	Minaha-mura, Okada, " "	90	S. Matsuda.

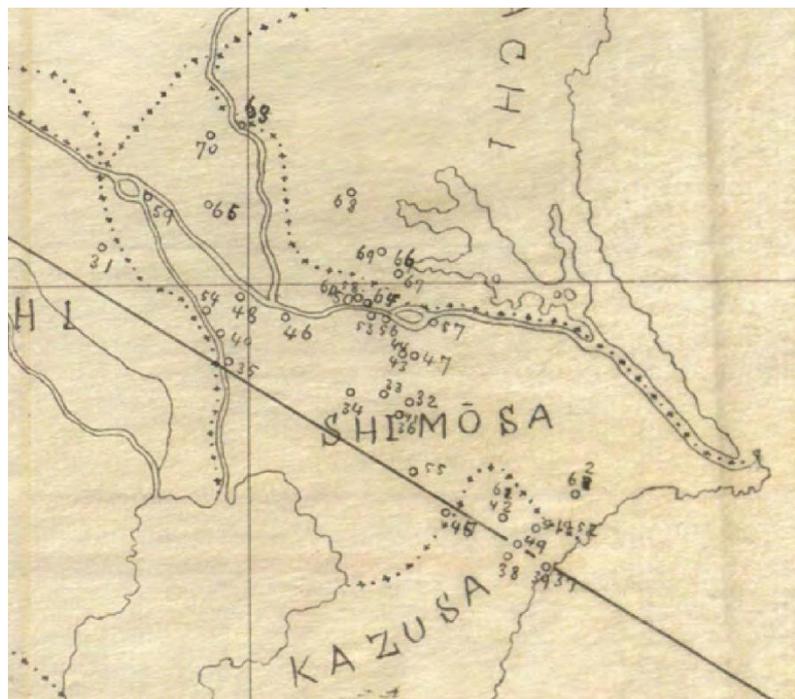
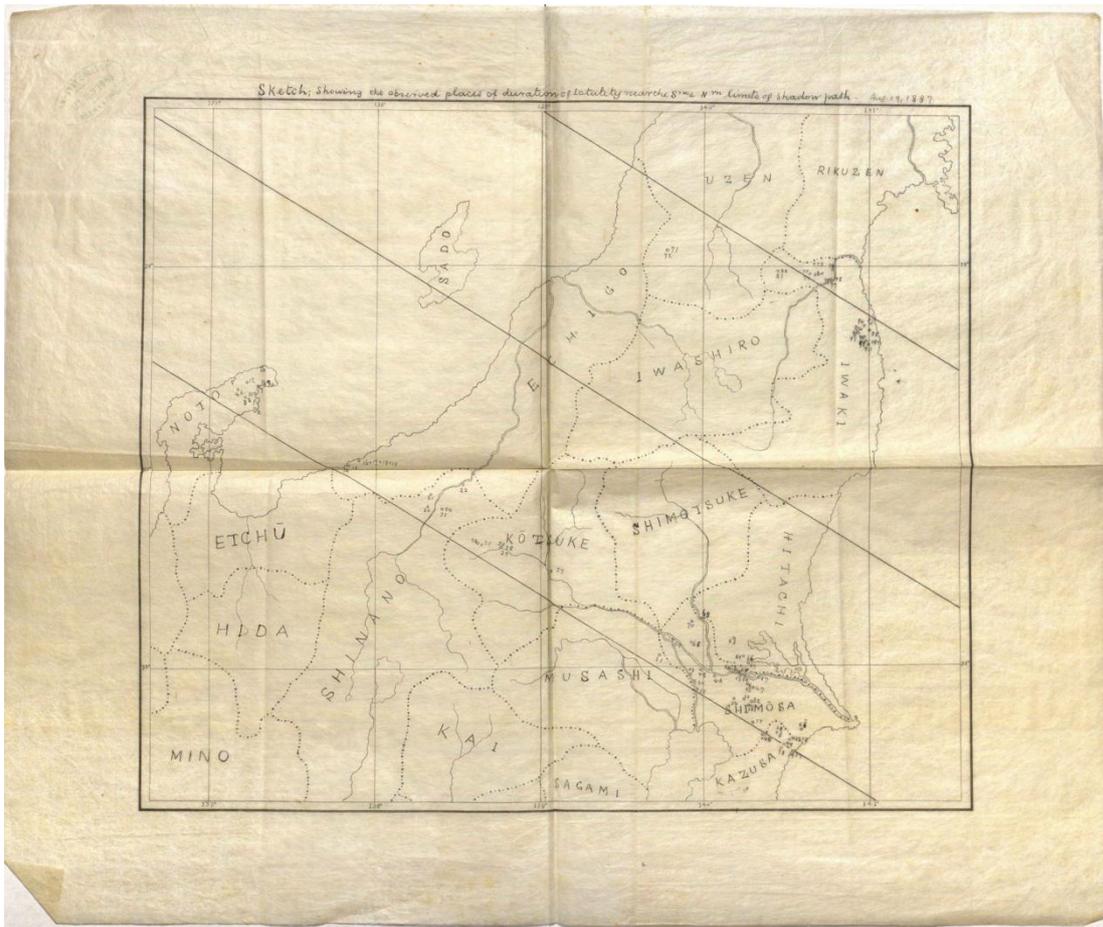
4.

Observations near the Northern limit of the shadow path.

No.	Station, (Town, District & Province)	Duration Seconds	Observer.
71.	Pingwatahi-mura, Nishiohama, Uzen,	40	N. Tanakura.
72.	" " " " " " "	46	S. Komiyama.
73.	Fukaya-mura, Katta, Iwaki, not total		S. Takida.
74.	Shireishi-hongo, " " "	1	F. Kakida.
75.	" " " " " " "	1	Y. Katayama.
76.	Kakuda-hongo, Iga, " "	4	A. Sasawa.
77.	Tateyama, Com. school, " " "	20	U. Kikuchi.
78.	" " " " " " "	21	O. Miyata.
79.	" " " " " " "	23	Z. Saito.
80.	Migawa-mura, Katta, " "	26	K. Imazumi.
81.	No. 27, Seki-mura, " " "	28	S. Watanabe.
82.	No. 21, Seki-mura, " " "	108	Y. Iwamoto.
83.	Haruno-machi, Namakata, " "	30	M. Seki.
84.	Mimashinden-mura " " "	34	N. Matsunoto.
85.	Izumi-mura, " " "	39	K. Namba.
86.	Naka-ota-mura, " " "	53	S. Hoshi.
87.	Kotaka-mura, " " "	59	N. Sato.
88.	Okame-mura, " " "	59	K. Sasaki.
89.	Onaba-mura, " " "	90	Y. Shimoura.
90.	Kotaka-mura, " " "	92	S. Onagari.
91.	Mimidani-mura, " " "	93	M. Soyama.
92.	Baba-mura, " " "	96	N. Okada.

Observation Sites of the Duration of Totality.

(Places are numbered as assigned in the lists.)

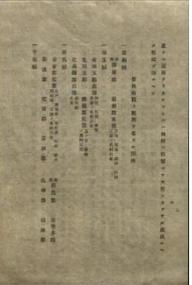


* The former regional names are displayed in the map.

Instruction Manual for Drawing the Corona.

			
1	2	3	4
			
5	6	7	

Instruction Manual for Observing the Duration of Totality.

			
1	2	3	4
			
5	6	7	8
			
9			