Kodaikanal Observatory.

BULLETIN No IX

LIST OF PROMINENCES OBSERVED BETWEEN 1906 JANUARY 1 AND 1906 JUNE 30

Date		H	B	Ht		I	H	R
				N	S			
1906								
J y 1	S S	9 41	1	66		T	10	
		30		16		I	1	
				0		I	15	Slightly l t t l Slightly l d t t p
		23	1	1		I	1	
		2	0	83		I	10	
		1		30		I	20	
		1		28		I	0	A t l t l l l l f m l l
		1	4	11		I	0	
		13	1	8		I	30	T l fl tl l
		13	1			I		T t t tl l t
		10			5	I	5	
		6			36	I	1	
			1		31	W	30	
		51	0		6	W	10	
		18	7			W	30	
		1	1	3		W	20	
		13	1	0		W	0	D ll
		1	1	3		W		A
		31		61		W		Sl t g t l l th d t g t
		30	1	73		W	7	t l
D 2	S S	1	05	87		L	0	
		3	1	8		L		
		8 7		41		I		1 l d tb C
		1	4	19		J	1	A l w b l t b k
		47	7	3		T	40	
		43			1	I	1	
		4	0		13	I	20	
		40	2		9	I	10	
		35	0			L	1	
		35	1		57	I	10	
		9 30	05		80	I	15	
		29	1		82	I	20	
		2	1		31 5	W	10	B glt V y l glt C
		22			21	W	10±	Tw t t l l t l t k f th m l t l l f m l l
		0	1		8	W		
		19	3		0	W	20	
		8	3	7 5		W	40	Sl l tly t ll C
		6		78		W	15	

Date		H ST	B	L t t d N tl	L t t d S th	L mb	H ht	R k
1906								
J y 3	S S	8 15	1	51		I	30	
		40	1	24		D	0	
		38		18		T	2	
		2	8		27	I	90	Tl l m t g tt p
		32	0 5		31	E	1	
		) 7			9	W	10 ±	
		5	0		7	W	0	Sl t t w d
					0	W	5	
D 4	S S	J 19	1	3		E		
		19	1	30		D	2	
		19	0	7		T		
		16	0 5	14		D	10	
		15		11		L	20	Sl t t d
		1	1		7	I	1	
		11			15	E	20	
		8 0			9	I	35	
		4	0		48	I	10	B ght
		40	0		80 5	I	10	D
		9 18	0		1	W	1 & 10	Tl l l t g l m t d t tl
		40		3 5		W	0	B d t t p
		35		71		W	8	
D 5	S S	11 31	1		13	I	5	N t
D 6	G N	) 12	2	13		I	30	
			1	24		L	90	
		10	1	0		I	30	
		8	3	16		T	5	
				11		E	25	
			1			E	0	
		2	1		3	T	20	T t
		0			3	I	40 ±	Sl t tl l
		8 0	1		33 5	I	15	
		9 37	1		73	W	15 ±	
		3	0		74	W	12	T t
		33	0		3	W	5	D
		32	8		18	W	12	
		30	1		12	W	20	S N t
		30			)	W	45	A l g l ll t w y f m l b
			3		1	W	40	
		19	1	14		W	25	
		18	0	24 5		W	15	
		15	1	0		W	20	F t
D 7	S S	10 22	1	34 5		E	0 ±	Sl t tl l
		0				L	20	
		16	0	3		L	0	
		11	1		5	D	2	
					46	F		
		3	2		61	F	35	
		9 57			64	L	65	S N t l
		11	0 5		76 5	W	1	
		0			46	W	30	} C t d t t p O
		0			44	W	2	
		10 49			37	W	0 ±	T p b l } C t d O
		47	0		34	W	45 ±	
		41	2		5	W	60	
		18	1		14	W	0	
		10	0	2		W	40	Sl gl tly b d t t l
		38	3	11 5		W	0	
		35	0 5	2		W	30 ±	
		33	1	27		W	0 ±	Sl ghtly b l t t p S N t 2
D 8	S S	9 3	6	70		E	30	F t
		9		48 5		T	25	
		25	0 5	46		F	50	B l t t l
		23	1	33		T	45	
		20		20		E	15	Sl gl tly b d t t p

Date			H IS I	B	L tt d N tl	L tt d S th	Lmb	H lt	R l
1906									
J y 8		S S	9 13		1		D	4	O 91 tn t d d t th l t p m t t p
			17		7		I		F t l d l t g t d
			10	10		19	L	70	S N t l
			13	1		19 5	W		O
			13	8		)	W	1 (	C
			13	10		9	W	0	C A 111 } C t l t l
			18			0	W	0	C
			1)			(5	W	0	
			18		11		W	(0 ±	C
			14	3	20		W	25	\ t f t C
			40		19		W	5	S N t
D 9		S 9	) 1	4	69 5		F	10	
				1	6		I	20	D bl
			8 7	3	1(		L	7	
			51	2	)		I	10	
			1)			8	I	20	Γ t
			1	1			I	90	
			10				I	10	
			40			(0	I	0	
			39	1		66	I	0	
			96			72	Γ	60	
			85	0		77	E	0	
			84	0		)	I	1	
			) 9(	1			W	0	
			83	1		48	W	80	90 l l C
			29	4		41	W	40	Ll \ t tl I d 95 l gh (
			1	1		4	W	110	Sl t g Ab t tw l d b t ly 90 h gl C
			20	1	9		W	20	
			16	1	16		W	15	
			11	4	11		W	Γ	D bl
			1(	0 5	52		W	10	
Do	10	S S	10 18	1	70		I	4	
			12	9			I	60 & 80	
			1	0		0 5	I	45	B d t t p
			0	2 5		3	I	30	} C t d t t l
			0	1		7	I	30	
			8 4			74	F	0	
			41			77	Γ	48 ±	
			48	1 5		71	W	3	
			10 1			5	W	5	
			42	1		90	W	0	D bl A t k l ll l t l mb t tl t p f tl C l m
			37	3		3	W	100	Γ p l t thw l C
			38		98		W	50	D h d f m l mb
			8	5	43		W	50	
			3		9		W	35 ±	V y f t
D	11	S S	9 22	4	72		F	2	
			8 58	1	65 5		I	30 ±	C
			9 16	1	55		D	3	T l fl w tw d C
			11	1	3		I	10	
			9		1 5		E	5	
			7		17		I	0	
			3		13 5		E	30 ±	Sl d t l D t h l f m l mb
			3		12 5		D	40	S N t
			9		10 5		Γ	30	
			3		10		I	60 ±	\ l nt g t k l t l d f m l mb
			8 9		7 5		I	0	
			58			3 5	L	0	
			38			72	E	40	
			38			73	E	3) ±	} C t d t b
			38			74	E	30 ±	
			38	0 5		70	E	30	Slightly b d t t l
			34	2		81	F	(5	
			30	1 5		80	E	25	
			9 58	2		74	W	25 ±	D bl Γ t
			50	3		59 5	W	5	Γ t

D t d b		H IST	B	L t t l N tl	L t t l S tl	L b	H glt	R m l
1806		w						
J y 11	S S	9 16	1		32	W	2	D bl
— td		4	5		4 5	W	60 & 35	
		30	1		10 5	W	20	Sl t w tw l
		37		19 5		W	10	
		34		31 5		W	0	A t l t k l t h l f n l mb
		3	4	43		W	50	Γ t
		30		51		W	0	
		2		7		W	15	
D 12	S S	9 45	1	4		E		C
		10 48	2	8		F	25 ‡	
		42	1	13		E	20	
		40	5	3		E	15	
		33	2 5		21	F	40	} M t g t t p
		33	2		30 5	E	40	
		5			9	E	30	D t l d f m mb l l l glt ly b d th n b tt
			1		82	E	30	
		10	2		74	W	30 ‡	
		15	1		6	W	2	
		2	1		74	W	30	
		0	0		69	W	0	
		9 8	1 5		5	W	30 ‡	H ght 2 t 14 l 56
		43	1		32	W	20	
		3	7		2 5	W	30	
		5	10	9		W	15	H l l g d f m t l l 50
		14 48		22		W	30	l b d C
		45	1	42		W	20	W t d y l glt S N t
D 13	S S	9 0	0 5	5 5		E	30	
		17	0 5	6		I	2	
		17	1	59 5		I		Sl t t w l tl l t p l m ts t t p
			6	20		F	4	} M b glt t d t b
		5		1 5		I	30	
		8 3	7		9 5	F	15	
		56	0 5		21	I	1	
		52	1		3 5	I		Sl tl w l
		52	1		25 5	I	10 ‡	I l m t g tl l p m
		18	0 5		28	E	30	Sl t g tl w l
		48	0		31	F	30	
		40	1		47	Γ	10	
		4	0 5		70	F	10	
		42			82	F	15	
		39	1		93 5	W	30	F t
		36	4			W	0	l t
		34			71	W	30	
		32			68	W	10	
		31	0		65	W	15	
		28	4		5	W		A b d t b
		0 43			42	W	20	
		4	1		3	W	1	
		40	1 5		9	W	20	
		36	1	23 5		W	0	T l l t tl w d
		33	1	37		W	40	
		31	1	40		W	10	
		29	2	44		W	10	V y f t
		28		40		W	15	
		8	1	77		W	1	D bl
D 14	S S	10 29	1	1		E	2 ‡	Γ t
		25	1	47		F	15	B ght
		10	8	22		L	55	
		11	8		5	F	60	
		4	1		12	E	2	Sl t g tw d
		5	4		2	E	25	
		3	1		40	E	20	Sl t g tw d
		9 58			75	E		
		56			78	L	0	
		54			84	E	1	

D t	d b			B	I t t d — N th	S th	L l	H gh	R m k
	1J00								
J	y 14	S S	9 53	1		81	W		
—	tZ		51				W	30	
			0			0	W	30	Sl gl tl b d t t p
			11 12	0	3C		W	(0 ±	Sl ghtly b l t t ; Sl t th l
			10	0	41		W		
				0 5	11		W	80 ±	B l t t l
			3	1	16		W	2	
			2	1	1		W	4	
			10 8		92		W	0	S N t
D	15	S S	) 15	1	(		1	0	Γ t
			18	1	70		1	25	
			10		(1		1	10 ±	
					(		J		B ht C t
			1			2	1	0	
			8)				1		I t
			5	4		6	1	0	
			Γ1			58	J	10	
			1			61	Γ	10	
			19			6	1	Γ0	
			15			65	1	25 ±	T p y i t
			) 0	1		58	W	30	
			4	10		36	W	30 & 45	
			36	9	1		W	1	
			31	1	2)		W	40	S N t
			23	6	41		W	6	S l t l t
			1)	3 5	18		W	60	l t d t l t
			1(		8		W	0	
D	19	G N	9 31	1	7 5		I	1 0	C A t ll
				10		5	F	60	N t l
			11	1		76	E	35	F l m t l
			30	0		81 Γ	W	12	B l1
			9 2			33 5	W	80	S N t
			24	0 5		2C	W	15	
			8 34			13	W	35	C A l ll t y f m l mb
			) 2			(	W	0	
			0		8		W	35	}C t l t t l by t l
			20	Γ	14		W	1	
			7		31		W	50	T p l l d l t thw d
			7	1	3		W	20	
				1	13		W	20	
					11		W	0	
			0	3 5	71		W	30	
			8 9	0 5	76 Γ		W	1	
D	20	G N	) 20	1	23		I	15	
			15	)		) 5	I	120 t4	S N t
						1	F	50 ±	t t l l t 8 l g w y f m l b
			0	7 5		)	I	10	
			9	1 5		13	1	8 ±	
			4	0 5		7	I	10	
			17	3 5		76	J	0	
			) 5	1		62	W	12	
			2	1 5		9	W	1	
			0	1		11	W	20	T l fl w tl d f l t
			15	0		6	W	3(	l l fl w b th d Th l t d t tl l t l C
			40	5	18		W	30	T p ly t l mb t L t + 12 W
			10	1	21 5		W		C t d t tl l t l m t t p
			33	1	29		W	2	
			32	3	42 5		W	15	2 l l tl C
			28		70		W	35	50 h gl C
			28	0	74		W	21	
D	21	S S	9 8	2	32		I	50	
			20	1	26		E	0	} b b b b y l glt tl
			29	1	22		I	45	
			0	1	1		E	60	Sl t tw l f I t + 3 D
			16	1		5	I	15	
			15			9	I		D bl
			1	1		1	J	20	B ht

Date			H IST	B	Latitude		Imb	Height	Remark
					North	South			
	1906								
J y 21		S S	9 10	1		19 5	E	30	A b lt
— tá			6	4		28	D	40	D t h lf f t d th y b lt
			2			41	E	60	
			0			47	D		
			8 57			68	E	20	
			5	1 5		75	L	60	F t fil m t
			52	1		80	D		
			49	1		85	W	20	
			9 55	1 5		6 5	W	20	
			52	5	2		W	25	
			4	1 5	27		W	20	D ll
			48		42		W	80	Sl t thw d
			35	1 5	58		W	65	
			5	1	71		W	30	
D 2		G N	9 10	4	31 5		E	65	
			5	4	26		L	0	
			14	1	21		I	20	C C t d t tl l t l m t t l
			3	2	11		D	20	F t t k fl w f m tl t p l tl l t
					6		I	10	A l t t k d t l l f l ml
			0		0		T	12	
			8 52	1 5		20 5	I	30	} Alm t d t h tl
			52	1		21	I	20	
			53	0		42	I	20	
			52	3		47 5	D	4	F l m t l
			47	2		79	I	4	
			4			83	W	1	
			45			81	W	40	Sl d
			9 28	5		36	W	30	
			25	1		4	W	1	F t C l m 3 l d 14 l l
			24		5		W	1	
			2	0 5	63 5		W	12	
			20	3	68 5		W	60	T l t l
D 23		G N	9 11		73		I	20	
			1	1	39		I	10	Sl gl tly t ll C
			9	2	3		E	4	D Sl t g thw l
			4	(		0	D	0	
			2	5		4	L	30	
			0	0		50 5	I	20	
			8 58	3		75 5	I	50	
			23			41	W	25	
				1 5		37	W	12	
			21			34	W	30	Sl t t l
			15	0 5		7	W	25 ±	
			18	4 5		3	W	35	T l t l 0 l l C
			14	1	19		W	20	
			14	1	52 5		W	0	
D 24		G N			85		I	20	Sl d t l
			9 0	2	73		D	30	
			47	3	4 5		F	1	St g d 30 l h C
			45	0 5	19		L	25	A t t t k b t 4 l ng fl w n thw d f m th m d ll f t
			43	0 5	12 5		L	20	B d t t l l p t l mb g t L t + 14 D d 10 L
			41	2	1		L	70	St g d 90 h gl C
			35	1		4	E	120 ±	S t l
			25	4		24	L	25	
			23	0 5		48	D	0	Sl t g thw d
			22	0 5		57	F	25	} C t l by t k t t p
			22			60	E	15	
			17	2		72	F	0	
			17	1		75 5	E	50	T t t th l t l m n t t p
			10 7	1		42 5	W	30	Sl htly t ll C
			5	1 5		36	W	25	S N t 2
			4	0 5		26	W	25	S N t 8
			2	2 5		4 5	W	30	60 h gh C
			0	0 5	4		W	12	
			9 56	4	48		W	35	D bl

Date			H IST	B	t d N th	t d S th	I mb	H ht	Rem l
1906									
J u y 24		C N	J 1	0	6P		W	1	
— 24			3	0	75 5		W	2	
					81		W	30	
D 2		S S	10 4		73		I	50	
			1	1	0		I	0	
			9 8	0 5	12		I	35	Ull l lf yf t
			56	1	28		Γ	1	
			50	0 5	28		D	1	
			45	8	1		Γ	2	
			43	1	19		I	60	M t ll F Mg l N l t g
			50	0	19		I		
			48		9		I	10	Γ t
			14		1		I	80	9 N t 1
						1 5	I	1 0 ±	S N t 2
			30	1		0	E	60	A t l b i 7 l g fl w thw d f m tl t
			28	2		31	I	10	C l k
			27	1		42	I	15	Sl t Hw l
			20	1		40 5	L	30	D bl
			1	1			I	(Γ	
			1	2		59	Γ	20	
			10	J		75	I	11(60 ± 35	V y f t C
			10 28	0 5		83	W	1	
			25	2			W	2	
				3		42	W		
			20	0		15	W	0	
			17	1	27		W		
			15		42		W	(0	Sl gl tly b d t t l
			11	1	15		W	40	
			11	1	47		W	40	
			11	0	49		W	30	Sl gl tly l d t t l
			(	0 5	71		W	0	
			6	0 5	73 5		W	0	
D 26		G N	9 20	1	4 5		F	30	B l t i p
			8 29		33		I	20 ±	O Sm ll D t l d f l m l
			21	1	21 5		F	10	Sl g tl d b t
			9 1	1	1J		I	0	
			15	1 5	18		I	20	
			1	0	1C		I	30	Sl t g tw d
			18	0 5	10		I	30	S N t 1
			11	0		C	F	1	
			1(5			14	I	3	
			9	2		17	I	L w	B gl t
			)			0	F	3C	A l dl t d t l lf n l m b l f gm t y
			7			25	I	20	Sl t g th d
			5	0 5		45	I	15	
			1	1		51	I	90	
			1	3		3 5	I	0	
			1	1		7	D	30	
			8 55	1		70 5	D	50	
			55	1		1 5	I	0	Sl t g t w d tl l t p m
			9 9	0		6	W	20	
			32	0 5		42 5	W	15	
			30	14	10		W	20	S N t 2
			25	1	4		W	20	
D 27		S S	10 38	0 5	78		L	30	V y f t Sl l tly l t g t d
			37	2	75		I	50	
					71		E	15	Sl d
			9	0 5	68		Γ	20	
			30	1	29 5		D	50	Al t m t t t p
			30	3	23 5		D	70	
			23	1 5	15		E	25	
			23	0 5	12		D	25	A t l g tl t p f tl f nd
			23	4	6		F	30	l m t g th t p m n
			23	1 5	2		E	25	
			23	1 5		1 5	E	0 ±	
			19			9	h	25 ±	D t h d f m l m b
			16	2		31	D	15	

Dt d b		H IST	B	Lt l N tl	Lt l S tl	L l	H glt	R m l
J y 27	S S	1 28	5		5 5	Γ	35	S N l
— td		5	4		71	Γ	60 ±	
		11 3	1		83 5	I	40	
		2	0 5		91	W	40	
		9 2			7	W	30	
		10 7			30	W	30	
		5	1		17	W	25	
					12	W	2	A l dl b t3 l i ln tp ll lt l mb
		54	1 5		5	W	0	
		15	17	20 5		W	50	S N t 2
		41	1	C2 5		W	25	
		40	1	73 5		W	0	
D 28	S S	9 26	1	51		L	10	} C t l t t l
		26	1 5	7		Γ	80 ±	
		26		76		I	50	A t b t S l fl w t d f m tl t p l lm t l ll l t tl l b
		2		41		I	30	A l
		22	0 5	36		I	20	
		18	1	32		I	70	I ll Sl t tl d
		18	5	2		Γ	60	I l t g th i i tl l i l m
		11	0 5	16		Γ	15	
		10	17	3 5		F	30	
		9	1		9	I	20	
		8	2		1	I	20	I t
		8	12		31	I	30	
		8 8	2		1	L	40	
		58	0 5		56	I	10	
		58	1		59 5	I	20	
		4	1		69	I	60	
		1	1		84	—	35	
		4			77	W	60	Sl l tly b l t t l
		47				W	0	
		9 47			31	W	30	
		47	1		91	W	30	D bl
		44	0 5		15 5	W	2	
		43	0 5		11	W	20	Sl w w d
		40	1		3	W	25	
		38	1	2 5		W	30 & 40	
		33	2	67		W	70	
		31	1	7		W	20	
D 29	S S	9 31	3	90 5		Γ	30	l l l t l C
		31	8	77		I	30	A l t t fl t l It m t th l l g C t I t + 7 I
		31		69		L	60	B l C
		28		60		Γ		Γ t t l
		0	12	37		I	60	M t C
		10	14	20		I	60	S N t
		6		6		L		Sl t g tw l
		1	0 5		18	I	30	
		1	0 5		20	L	15	D ll
		8 57	11		92 5	I	5	B l t
		53	0		53	E	30	
		53	3		56 5	I	30	
					60	D	20	
		50			6	Γ	10	
		50			4	Γ	10	
		0	0 5		67	D	10	
		48	1		73 5	E	10	
		40	0		84	W	60	B l t l Up p t f l l t g w d
		44	1		8	W	15	
		40	2		78	W	60	A f t l t l h d f l mb
		10 8			73 5	W	20	
			0 5		52 5	W	20	
		4	2		45	W	0	D ll
		3	0 5		40 5	W	30	B l t t
		0	4		34	W	50	Sl t tly t ll d l b glt C
		9 49	0 5		1	W	0	S l t d t th
		47	2	8		W	15	D ll
		45	1	26 5		W	2	Sl t thw d

D t d b w	H IS I	B	T t t l N H	S tl	L mb	H glt	R m l
1906							
J y 29 SS	) 41	1 5	61		W	25	
— tZ	10	1	68		W	80	Sl t t l
	98	0 5	7		W	20	
	3	0 5	83		W	0	
D 30 SS	9 29	1	92		F	5	l ght
	1		75		F	30	
	15	1	(5		I	0	B glt
	11		8		I	10	l 11
	11		(		I	0	
	7	1	41		I	30	S N t
	1		31		I	30	A f g t y l d y f th l l by 70
8		9	1)		I	0	C t l C tl l t l m
	1	0	3		F	10	(
	50			11 5	F	20	F t
	41	2		(	I	15	
	1			84	W	85	Sl t g Ul d
	1			80	W	35	B l t b I l f t l b l
	40	2		7	W	0	l t
9 0				71	W	10	
	1			67	W	10	
	15			33	W	40	
9 2				10	W	I w	(
	2	2 5		6	W	L w	C
9 10				1 F	W	10	
	31	0	1		W	0	
	3	1	27 5		W	20	
	91	1	38 5		W	1	
	30	1	84			30	
D 31 GN		2	88		F	1	
9 2		0 5	81		F	2	
		0	79		F	2	
		1	78		I	2	
	20	1	7 5		I	30	
8 31		1	73 5		I	13	C
	91	1 5	1)		I	20±	C
9 18		1	13 5		I	20	
	8	0	10		F	1	
	15	1	9 5		I	1	9 N t
		12	28		I	8	
8 5		2		9	I	1	
	2	0		38	I	40	
	0			13	E	20	l t V t l
	50			1	F	0	
	47			66	I	15	
	47	0 5		( ) 5	I	15	
	17	0 5		72	I	20	
	45	0		83	F	15	N t f l C
	44			83 5	W	10	N t f d C
	31	1		77	W	0±	C
	34	1		73 5	W	65	C
0 38		5		81 5	W	30	
	98	1		29 5	W	15	
	34			13	W	15	
	30		73		W	12	
	30		77		W	15	
	27	1 5	84		W		
F bru y 1 SS	9 9	2 5	84		F	20	
	6	0 5	82		E	45	T l t l by f t t l
	6	0 5	78		I	20	
10 30			76 5		F	25	Sl t g t w d d lm t t h th
	30		73		F	30	
9 4			55		E	25	V t l Sl d
	27	0 5	51		E	150	C F t V t l T p l gl tly b ght th th st f tl p m
	2	0 5	46 5		E	20	
	0		88		E	15	S N t l

f t d b		H IST	B	L t t d N th	L t t d S h	L l	H ght	R n l
1906								
i b y l — tz	S S	9 0	1	35		1	0	3 l h t 10l 30
		8 53	⅛	17		I	70	
		50	2	8		Γ	1	(t d t t p Γ m wh lff t t 10 40m
		49	0 5	4		D	0	C t d t tl l t l n t t p
		48	1		3	I	25	
		16	1		14	D	20	
		41	1		30	D	20	T p t l mb g t I t — 34 F
		4			39	L	1	B d g tw d t t l
		40			8 5	E	25	Sl htly b l t t l
		3	5		79 5	W	20 & 40	11 h gh t l t 70 l gh J 38
					73	W	—	C l gl tly d pl l b l y n p m n tl t l t
		9 32	2		31	W	5	A l ht t
		31				W	15	
		30			11	W		
		30			12 5	W	5	S N t
		28	1	1 5		W	10	D bl
		7		10		W	2	Sl d
		25	2	15		W	10	A w t l t l w tl l d b l k l k t t p
		20	7	27 5		W	1 &	
		15		71		W	2	
		15		73		W	5	
		13	2	76		W	30	
		11	1 5	82		W	5	
		11		82		W	10	
D 2	G N	9 3	1 5	78		I	80	
		8 39	0	5		I	120	C V y f t l
		9 5	1	1		L	30 10 ⅛ 110	S N t
		8 51	1		7	Γ	1	B d g th l
			1 5		17	I	1	
		49	1		21	I	15	B ght
		40	5		9 5	Γ	60	V y t t C
		40			31	D	15	D
		1	0		59	Γ	20	
		30	0 5		83	W	20	
		9 51	1 5		17	W	30	T p b tl w y (
		52	1		6 5	W	40	T l l d tl w d t t th C I l g t f tl l t p
		4		9		W		Γ t g l
		1	1	30		W	0	
		37		70		W	30	
		36	1	74		W	10	
D 3	S S	9 37	1	77		Γ	2	
		34	6	73		L	10	
		30	1	64		Γ	0	D ll
		30		60		D	20	
		28		53		L	5	A b h f m h m ldl m t l ml g t I t + 51 E
		3	7	35 5		E	0	V y t b C
		8 59	1	32		D	120	C A y f t l d l l t tl t p l h l n t L t + 58 E } S N t l
		9 15	12	20		D	100	M t b 3 b l d tl wl l l y t C
		7	1	6		E	25	D bl
		3	3		4	F	20	
		8 58	2		32	E	50	A h t f t t k l h g w y tw d f tl d ll f t
		56			52	E	15	Γ t
		54	0 5		9	E	2 ±	V y t t
		51	1 5		83	W	4	
		47	0 5		77 5	W	30	
		46			75	W	25	
		45	0 5		72 5	W	1	

Date			Position	B	Latitude North	Latitude South	L	H	Remarks
1906									
Feb 3	SS		10 5	1		31	W	10	I bl
— *contd*			1	1		7	W	20	S b l t b C
			0	1		8	W	0	Sl t g w t l
			9 7				W	10	
				1	6		W	0	
			5		9		W	80	D t l lf l l
			58		155		W	30 ±	S N t
			1		20		W	15	
			14	6	33		W	60	S N t S
			10	1	7 5		W	10	Fl b d d b tw l
			30		84		W	10	
D 4	GN		10 10	1	8		D	30	C m l l
			9 1	5	73		I	60	C F t l tl l tl m tb C
			17				I	10	C C t l t Iml ly h t l d t l
			17		19		I	1	C
			10 5	5	125		I	60 \ 7	
			9 4	6	30		F	2 ±	
			51	2			I	60	Ab l f m l m d ll t tl l l t I t + d l
			16	1	9		I	15	
			16				I	17	} Sl d
			1		3		F	15	
			1	1		1	I	3	Af t l t tl yl ht p t b
			12	1		18	F	12	
			41	25		83	I	0	
			41	1		99	I	40	D ll D l ll l l
			10	05		4 5	I	20	H l ll t t l
						71	I	15	
			32	3		8	W	60	} D t l d f l l
			30			8	W	45	
			30			77	W	90	Sl d D t l d f l l
			10 35	1		15	W	45	} C t d
			8			43	W	35	D t l d f m l t } C
			33	1		18	W	30	
			30	15	18		W	1	Sl gl tly t ll (
			25	4	8		W	70	t d t A t l t
			25	1	8		W	70	B d t t p } l ll w w d f m tl t l f th i C
					89		W	45 ±	S N t
					3		W	10	
			15		77		W	35	B l tl w d t t l
			15		80		W	3	
D 5	SS		8 20		71		I	150	C V y f t Hy l
			9 9	1	61 5		I	20 ±	B l t
			(	2	58		I	2	
			2		40		F	0	
			10	7	9 5		I	30	
			16		12		I	0 ±	V y f t l d l l l ll l l
			12		9		I	40	Ab t 2 b l D l d f l mb
			1		7		I	0	Sl d
			10		2		I	10	
			9	2		6	I	0	S N t l
			(			9	I	20	Sl l
			3			11	F	15	I l t d t tl t f l t L t — 6 l C
			2	05		17	I	10	B l t
			1	2		28	I	15	
			8 5	11		88	I	30	Cl g t
			1	2		47	I	10	S l l t tl
			48			64	F	1	
			4	1		83	W	100	T p b d d l t w w l t l mb C t L t Sl W
			3	1		7 5	W	0	S b d t l C
			0 17	1		62	W	1	
			10	05		58	W	2 ±	I t Sl t n w t d
			14	2		48	W		
			10	2		43	W	70	S d p m l ly l d f h ll

D t d b		H Ib I	B	L t t l N tl	L t t l S tl	L b	Π ght	l m l
190								
F b y — id	G N	10			89	W	20	l t l t tl w l
		0	1		2	W	0	S N t
		9 52	10	20		W	50	l l t l N t t l f i C
		8 9	11	81 5		W	5	O
		9 39	0 5	69 5		W		}Sl t t w l l tl
		89	1	2		W	2	
		88		71		W	45	St lt t l l ght th l w l ll
		81	3	77		W	35	
D 6	G N	8 9		73		I		O
		9 2	0 5	70		I	0	S N t l
		5 2		67		I	5	(
		9 31	2	55		E	30	Sl l tly l l t I
		30		4		F	12	
		5	1 5	33		I	0	
		28	1	30		F	20	}S t d b t l t t l
		28	1 5	2 5		F	20	
		1		19 5		I	30	
		22	1		1 5	F	4	S N t
		1	0 5		2	I	40 ±	
		15			2	F	10	F g t y B d t t l (t l t th l t l m t l W
			1 5		36	I	50	T l m l l t L t 3 I Tl h l l i t O
					4	I	30	
		1	1		5	F	12	
		0			6	I	15	D ll D t l ll m l l
		8 58	7		80 5	W	10	F l m t l M t n O
		9 48	2		45	W	1 0	) bl Sl t t tl w d St t n O
		42	3		21 5	W	0	Fl l t tl
		8 20		11		W	30	}(
		9	0	1		W	0	
		9 38	1	71		W	0	
		39	1 5	74 5		W	60	
		38		77		W	60	
D 7	S S	9 30	0 5	84		E	10	
		8 43	0 5	75 5		I	12	C y l l
		9 29		74		I	30	S ghtly l ll C
		22	0 5	61 5		I	50 ±	Sl t t w l lm t tl l l m n
		22		58		I	100	S t
		1	1	53		I	30	A l p
		14		33		I	15	
		11				I	20	
		10	3		7 5	I	20	
		6			18	F	25	Sl t t l l
		3	3		34	I	70	V y f t C
		0			41 5	E	0	I t l t l l l l m l
		8 58			3	I	2 ±	S ll y l l w y f l m l
		58	1		58	I	0 ±	
		58			74	F	2	A l t t l t l l f m l l
		48			81	W	6	B d t t l C l y f n t b t f b d t l
		10 12			7	W	10	
		9	0		48	W	90	B glt b 180 t gl C
		2	8		7	W	70	
		9 56	4 5		15	W	75	D ll M t C
		52	0 5	3 5		W	15	
		50	4 5	12		W	20	
		47	0	17		W	25	
		4		19		W	20	
		45		21 5		W	30	
		41	2	36		W	45	
		38		54		W	15	V y f t
		35		70		W	20	
		33	2	74		W	35	
		32		78		W	20	
D 8	G N	8 39	0 5	78		E	40 ±	C
		9 20	2 5	59 5		E	40 ±	Sl ttly l C
		15		53 5		F	30	b l m t l }C t l t
		15	2	49 5		E	60	

D t d b			II IS I	B	L t t d N tl	S tl	I ml	II lt	R l
1906									
F b y 8 — td		(N	) 10	5	7		I	30	S t
			(	1	3		I	15	D hl
			2	1		1	I	15	
						26 f	I	15	
			0	1 5		38	I	12	
			6 d)			(1	I	45	C I t
			d)	0 5		((5	I	30	C
			1)			83	W	15	
				0		19	W	30	C l 45 l gl d t t p m t l mb
			) 0	1		24 5	W	65 (0	6 t L t — 9 W
			4			1 4 5	W	(0	A l t l d f l mb
			35	5	2		W	5	
				2	27		W	0	
			30		3 5		W	20	
			30		3(		W	2)	
			80		d8		W	20	
			20	1	74		W	90	B l w t l t t
D 9		S S	9 15	4	(9 5		I	80	
			14		(1		I		S N (1
			10	(	3		I	4(	S l l t tl C t d t th l t
			5	2	30		I	9	
			0	3	18 5		I	15	S N t 2
			8 9	8		)	I	0	
			45	1		1	F	30	A t l f m tl ldl t l nb tL t — 2 Bl
			1	1		)	I	5	B d g l t t tl l t p m t t p
			38	1		(4	I	5	l l t l tl w
			95			89	W	5	A l ll t d t l d l l mb
			10			71	W	10	
			9 8	0 5		49	W	30	C
			5	6		9(	W	55	l t t t w d d m t l th
			5	7		1) 5	W	5	
			11			4	W	1	D t l d f m l l C t d t tl t f tl t C
			38	)	5		W	(0	S l l t th
			92	2	2		W	50	Sl t w d l t g tl t m
			82	2	28		W	0	S N t 3
					71		W	30	l p b glt l l glWyl l th b
			0		71		W	3	A l dl l l t l y l n l b
D 10		G N	9 2	1	81		F	25	
					71		I	5	l d t t
			22	2	0		I	30	
			20	1	54		I	15	
			0	1	51 5		I	1	
			18		41		F	20	
			1r	1	25		I	35	
			15		21 5		I	35	C t d t t p
			15	0 5	18 5		E	35	
			5	4		5	F	15	
			5			10	E	90	D t l d f l ml
			8 5	5		29	F	1	
			52	3		48	F	15	
			0			47	E	12	
			10 9			83	E	12	
				1		74	W	15	
			5	2		53	W	20	D bl
			4	1		31	W	1	
			4			29	W	15	
			0	0 5		18	W	12	
			8 26	1 5		10	W	20	C
			9 55	3 5	6 5		W	45	9 N t 1
			45	9	3 5		W	6 & 60	S N t 2
			35		42		W	35	D t h d f m l b
			22	2	73		W	25	
			8 26	0 5	79		W	45	C

D t	d b		II IST	B	L tt d N tl	L tt d S th	L mb	II ht	R m k
	1906								
F b	y 11	G N	9 3	3	81		Γ	30	C A 11 k
			9	4	28		I	5	
			8	1	2		Γ	2	
			9	1	21 5		L	25	
			30	7		8 5	I	0	1 1 gl C
			23	0 5		35	E	12	
			2	2		48	I	1	
			0	1		3	E	1	
			8 37	2		35	W	L	(
			9			32	W	15	
			0	4	1		W	20	} S N t 1
			8 37	(			W	3	C
					13		W	30	\ t 1 w f 1 mb Ch g g H ht
									b t 10 1
			9 45	10	7		W	1 15	S N t 2
									\ 0
			40	0	18		W	1	Ch g b f n
			37	0 5	73		W	30	‡
D	12	S S	9 6	(	92		I	10	‡ } V y f t
			0	0 5	81		Γ	10	‡
			2	0 5	3 5		Γ	10	‡ B 1 b t d t t 1 1 t
			(		68		I	5	‡ \ f t 91 1 tly 1 1 t p
			8 3		51		I	0	C
			55	4	30		I	2	
			0		9		Γ	30	
			17	4		1	I		
			14	(5		24	E	10	
			44			3	I	2	Γ 11 k t t p t m b ht
			35	7		38 5	L	0	1 1 lf 1 b 1 t
			31			J	I		b t B d g 1 d t t p
			30	1 5		74	I	30	B d g t 1 t t 1
			0 48			75	W	0	
			41			31	W	0	
				0 5	13		W	30	S N t
			3	3	17 5		W	10	} C t d t t p
			30	7	(5		W	30	
			2	1	35		W	5	
			17		11		W	2	
			11		7		W	55	Sl ghtly 1 d t t 1
D	13	G N	9 40	1	71		E	30	
			8 23		72		I		} C
			8		69 5		I	2	
			J 30	3		4 5	Γ	20	
			30	14		14	I	20	
			20	1 5		29	b	30	
			18	6		36	L	50	
			8	0 5		70	D	30	
			7	0 5		6	E	1	
			6	1		83	W	1	
			5			79	W	12	
			8 28	0 5		39	W	5	C
			10	0 5		28 5	W	20	
				1		27	W	20	Sl htly 1 d t 1 d 30 1 gh C
			9 55	1		2	W	5	1 ghtly b 1 t b 1 3 1 h C
			8 23		12 5		W	30	‡ C D t 1 d f m 1 mb
			9 50	2	5		W	75	S N t
			42	1	12		W	2	
			8 28		18		W	65	} C Γ t C t d t t p
			8	2	54		W	65	
			8	1 5	73		W	3	C b t
D	14	S S	9 7	1	75		Γ	25	‡ F t
			6	0 5	65 5		D	20	
			4	0 5	58		F	0	
			8 57	4	10		Γ	20	E t h lf f t
			4	0 5		4	F	0	Sl 1 tl 1 1 g tl d t t p
			45	1		23	D	35 t	S N t 1
			10	0 5		45 5	D	20	

D t d l	H I S I	B	I t t d N tl	I t t d tl	I l	H glt	Γ k
906							
F b y 14 S b	8 33	0 5		71	L	0	Γ I l l ll d tl l
— td	33	0			L	30	Γ t
	30			81	I	30	D t l lf l b
	25			58		0	
	26	1		8	W	10	
		1		73	W	10	
	10 3	3		8	W		
	0			3	W	20	
	9	2		31	W	10	
	1			28	W	0	
	1	1		21 5	W	10	S N t
	11	1		45	W	60	} M t g t t l S t l by t k l t
	11	1		15	W	10	l g l 50 l h
	3	8	10		W	4	S N 3
	3		19 5		W	10 5 10	S N t l
		1	33		W	0	
	0		1		W	15	S N t
		1	83		W	5 ‡	
D 1r C N	9	14	29		E	0	
	17	1	5		E	1	
	15	4		1	D	1	
	40			32	I	6	
	31	0		16	I	1	
	35	3		73	I	1	
	31			79	L	4	A t k d t l l f I l
	30			83	W	20	Sl htl l l b t p
	9 52	2		10	W	10	C l l
	1	3		9	W	30	
	4	1		5	W		B l g tw l t t
	8 31	1		10	W	20 ‡	C
	35	8			W	1 0	A l f t l l t th n g l f t b tl C d Hy l
			20 5		W	12	
	28	1	30 5		W	15	
	5	3	41 5		W	0	A hl l
	18		71		W	30	Sl t g tl w l
	16	1	78 5		W	0	Up l l lf l t t l f l w
	16	1	76 5		W	1	B glt
D 16 S S	7	2	73		F	10	
	8 53	4	18		E	0	} (t d t t l M t ll C p m
	3	4	11		E	50	t l f m I t + 30 E t + 13 L
	3	0 5	97		Γ	0	
	16	1			E	‡	I t Sl t tl w d
	8	4		3	I	60	
	33	0 5		42	I	10	
	27			78	I	4	
	1			88	I	30	Sl t g hw l
	20	2		73	W	10	
	56			12	W	30	
				10	W	0	
	5	2		58	W	10	
	50	0		31	W	10	
	18	4		16	W	2	A hl l
	4	7		(	W	9	
	9	4	7		W	4	M t ll Γ t C
	3	0 5	68		W	70	} Al t t l t
	3		2		W	40	t p I t
	18		74		W	50 ‡	Sl gl tly b l t t l
	1		71		W	30 ‡	A h t t t t l t n l l d p ll l t t
	14		80		W	50 ‡	A f t t l l ll l t l l f m l mb
D 17 S S	9 40		72 5		I	20	
	35	9	91 5		Γ	60 ‡	F l m t l M t C
	8 24	1 5	15		I	30 ‡	S N t 1
	59	4		8		30 ‡	S N t 2
	(	1		19 5	I	15	D tl B glt
	1	0 5		0	E	10	

D d b	H IS T	B	L t t l N th	L t t l th	L b	H gl	I m l
1906							
F b y l S	8 49	2		73	E	4	C l k
— tl	47	0 5		75	E	0	
	47	0 5		9	D	30 ‡	
	45			83	D	25 ‡	Sl gl tly b d t t l
	43	0 5		79	W	15	F t
	10 20	0 5		47 5	W	25	C p 11 2 b l t b d d l h
	14	0 5		31	W	2	S t g tl w l
		6	2f		W	30 ‡	11 ll t l t 45 hgl C
	9 58	0	71		W	5 ‡	
	58		73		W	30 ‡	
	55	0 5	J		W	20	
D 18 G N	8 50		7		T	5	
	4	0 5	51		L	12	
	42	1d	9 5		E	90 t 95	110 l l C
	38	1 5		1 5	L	0	
	35	1 5		29	E	1	I t l lf b lt
	30	1		3	I	3	
	20	0 5		82	D	4	
	0	0		83	E	1	
	9 2	1 5		60	W	0	
	0	1 5		34	W	15	C 11 M i l f l t fl t
	8 8	1 5	20		W	20	
	58	1 5	23		W	0	C t d t tl
	58	1 5	2		W	30	Sl t g tl w d
	55	2	47		W	20	A hl l
	52	0 5	71		W	10	S gl tly b d t t l
D 19 S S	9 30		78		D	30 ‡	S N t 1
	5		66		I	15	
	25		37		1	40 ‡	
	20	3 5	33		T	130 ‡	S N t 2
	20	0 5	30			70 ‡	
	10	0 5	12		I	30	Sl t t i B glt tl l glt t k p l g l bw d f m tl t l
	3	5			L	35	
	1	0 5		28 5	I	2	T t l d d ll
	8 59	0 5		10	I	1	
	7	1		45	1	50	Sl t tl w d
	52	1		49	F	0	
	49	1		75	T	15	
	47			79	F	30	l gl tly l l t t l
	5	0		82	F	1	B l tl m lll
	44	1		80 5	W	10	
	42	2		73	W	30	
	40	0		68	W	2	B l tl d t t p
	36	1		61	W	10	
	10 7	0 5		39	W	30	
	2	0 5		2	W	3	Sl gl tly l l C
	0	2 5		13	W	25	S tl l lll glt
	9 57				W	30	H k l k t t p
	56	0	2		W	10	Sl t g tl w l
	55	1 5	10		W	1	
	52	3	29		W	50	Tw t k l l t 5 l g p d b l d t f tl t p
	52	1	32 5		W	35 ‡	Sl t g t w d d m t g tl n t p m t t l
	49	1	35 5		W	30 ‡	
	49	1	38 5		W	25	
	47	1	42 5		W	20	l t g thw d
	43	0 5	46		W	25	Sl ghtly b d t t p
	8 34		65		W	25	C
	34		67		W	15	C
	9 39	0	7		W	15	D bl
	36	1 5	73		W	40	
	33	2	76		W	60	N w t t b
D 20 G N	8 5	1	38		E	35	
	55	2 5	35 5		E	60	C p m 90 h gl d f l w tw ds t t p
	50	1	15		E	12	

D t	l b		II IS l	B	L t t d N l	L t t d S tl	I mb	II lt	R k
	1906								
F b	y 20	G N	8 15		0		F	0	I d t t l
—	22		40			8	I	0	B d t t r
			90	C		14	I	0	
			3	4		25	E	2	
			92	1		13 5	F	15	C l l
			82			48	F	30	Sm ll l t l l f l b
			8	0		0	I	I	Sl l tly l C
			9 12	1		40 5	W	12	90 h h l l l d C
			1(	1		16 5	W	30	
			8	8	8		W	25	
				1	19		W	15	
			3		3		W	30	A l l t 3 l y f l mb
			3	1	35		W	30	
			2		13		W	30 ±	
D	21	G N	9 2	0	15		D	1	
			5		38		F	20 ±	
			22	1	3		F	1	I l ly l l t l t I l t
			2	2	0		F	30 ±	C l l
			0	6			I	1	A l l l t d tl l mb by thr t
			12			5	I	1	} l t & w l l tl
			12	0 5		28	F	15	
			10			41	I	1	
			98	0 5		25	W	12	
			3(	1			W		Sl t tl l
				1	11		W	5	F l fl l w t d d t g l mb g t L t + 13 W d + 16 W
			30	3	2(		W	30	
D	22	S S	) 2				F	(0 ±	F t B l t t l
			9		6)		F	50 ±	V y f t) t h l f m l ml
			16	1	1t		I	2	
			11	1	8		I	30	L w h lf b gh
			(	2		32	I	20	
			4	1		36 5	I	0	
			2	3 5		40	I	50	S N t l
			9 (9	1		52	I	50	
			7			8	I	80 ±	
			1	1		(8	II	15	O
			1			(	F	55	Slgltly l l tl m l ll
			2	1		3	W	0	
			10 7	0		(3 5	W	20	C l k
			6			17	W	60	S N t 2
			4	2		38	W	20	} b t l C ly l d l t 6 l g
			2	1		35	W	25	
			0	3		2	W	30	A l t
			9 58	1		0 5	W	5	
			5		1		W	(5	S N t 3
			5	0	3		W	5	F t
			9		11		W	25	S N t l
			4	1 5	2		W	55	
			43	1 5	3		W	10	D bl B l t l I
			40	1	41		W	50	W t l lf) ht tl th
			33	4	71		W	60	
D	23	G N	13 6	1		31	E	25	B l thw d t t p
			(	2		36	E	25	
			1	1		56 5	E	15 ±	C l
			15	1 5	0		W	30 ±	C l
			1		4		W	0	S N t
D	24	S S	9 3	2	90		F	90 ±	S l l tl
			1	0 5	71		F	31 ±	
			9 3		72		I	100	S N t
			57	0 5	( )		F	10	
			56		(7		F	20	
			51	1	19		E	0	
			9		10		E	15	C 5m ll d t h d f l nb
			52		35		E	5 ±	V y f t d t l l f m l mb
			15	6	18		E	5	M t ll
			42	0 5		6	I	0	

D t d b		H IST	B	L t t d N th	L t t d S th	L b	H ght	R m k
1906								
F b y 24 — td	S S	8 40	0 5		J	D	20	Sl t tl w l
		37	2		21	L	30	C l l b d th l t t p
		34			1	I	20	
		32	2		55	D	40	
		29	1		75 5	E	6	B d t t p
		5	2		J	E	60	T t l l t t d l tl d m t g t i p
		9 7	1 5		4 5	W	40	
		20	4		2	W	20	
		15	11	2 5		W	40	
		8		69 5		W	60	l t t l 70 l l C
			2	1		W	40	V y f t
		(	5	74 5		W	20	V y k gl t t L t + 76 5W
		5		88		W	10	
D 25	S S	15 0	1	50		E	60	l t t l
		14 58	1 5	42		E	95	D
		54	1 5	16		L	20	
		10 33	3		5 5	F	30	V y l l t L t — 3 5 I
		15			73	L	30	
		6			77	F	15	
		14 51			81	I	30	
		7			82	W	40	Sl t tl w d U p l H d t l l f m l w
		46	1		10	W	0	
		41			3	W	20	
		8	3	0 5		W	50	
		13 5	0 5	26 5		W	20	
		5 3		69		W	30	
		3	0	71		W	30	
		3		73		W	30	S N t
D 26	S S	10 34	1	76		F	25	F t
		1	4	43		I	25	
		2	8	18		F	45	
		9 6	5		52 5	F	35	
			1		72 5	E	0	
		0	0 5		7	I	50	B l t t I
		11 4	1		0	W	25	
		3	2		45	W	25	
		2	1		40	W	20	
		10 54	3		4	W	30	B gl t
		54			0 5	W	25	D
		43	1	61		W	60	B l t t I
		36		83		W	15	S N t
D 27	S S	10 21		5 5		F	75	Sl l tly l l tl d ll
		14		71		I		Sl t g tw l
		9 48	1	53		F	30	A l t
		39	1	49		F	60	C t d t t I
		30	1 5	48		I	60	
		10	0 5	1 5		E	45	
		8 26		82		E	30	C
			1	23		E	40	S N t 1
		46			28	F	30	W l l k t t I
		45			51	E	1	
		15	1		53	F	25	
		5			56	I	30	
		31 5			73 5	D	50	
		27	1 5		81	D	50	A b gl t t k tl ddl
		25	1		82	W	10	
		10 39	6		28	W	80	C t l t t p
		36	9		13 5	W	60	
		3			10	W	60	
		35	3		6 5	W	30	
		32	2	8 5		W	35	A l gl t w th f t t k t th th l t
		31	0 5	18		W	25	B d g thw l t t p
		28	5	23 5		W	15	
		27	3	40 5		W	25	S l t d t th
		24	2	70		W	50	Sl gl tly l d tl m ddl T p h p
		23	1	82		W	50	Sl t g w tw d S N t 2

Date			Time IST	B	Latitude N	Latitude S	T b	H gl	m k
1906									
March 2		SS	9 10	2	73		J	20	
			15	1	30		J		A l t g
			8	2			E	45	} M t g t l
			8	2	2		I	15	
			1	5		85	F	20	
			0	1			F	30	D 11
			8 5	3		8 5	J	45	
			51			1	W	30	A f l t l lf l l
			51			6)	W	1	
			0 36	1		3	W	10	Sl t g tl d f L l — 15 W T r l l
			36			11	W	2	A l d l t 3 l l t h d l m l mb d l ll l t t
			35	0 5		J	W	20	
			31	5		6 5	W	0	D 11
			31	1 5	7		W	5	T l fl b tl C
			30	3	34 5		W	35	
			2t	3	10		W	50	S N l
			21	1	0		W	3 ±	Fl t t l t t tl l l t g l l
			21		71		W	3	I l l l tly l l l l t thw l
			1)	0 5	83		W	30	(l l tly l l t tl d t th l
D 3		GN	8 7		73 5		L	12	
			(	1 5	15 5		L	10	C l l l 1 0 l l
			54	5	6		I	35	B l t d t
			50	7 5		)	I	40 & 30	(0 h gl C
			J 27	1		6(	W	20	l t
			2	1		(J	W	0	I t
			5	6		2	W	30	B gl t
			2			(	W	J w	S l A l p pl I w tl I t t s 30
			31		0 5		W	30 ±	C S n ll d t l lf l b
			2(	1 5	3		W	1	S t l ly t k (
			31		7		W	30 ±	C D t l ll l l
			34		21		W	10 ±	C l l l l tl ll t ll l tl t l l tl l l
			10	8	84		W	90	B l t 110 l l l t C
				2	67		W	3	
			0	3	72		W	1	
			0	1			W	0	
			0	1	79		W	1	
D 4		GN	8 20		9		I	0	Tl l t tl
			1	1	73		I	90	I t fl n l l
			13	1	18		I	12	
			12	1	)		I	30	B gl t
			11	2	1t		F	80	D l A t l t l l fl w tl d l m tl t p C
			8	4	3		F	1	
			7			9	D	80	S N l l
				0 5		28 5	F	30	
				1		3	E	35	
			3			88 5	I	3	A l ll t d l l lf m l l
			0			51	F	1	
			41	1		39 5	W	0	
			44	1		30	W	30	T p m t l b tI t — 7 W
			40	4		2	W	60	B ght t C t l t l l tp m n O
			3	4	1		W	20	S N t
			30	2	29		W	(	B d t t p { O t d t t l V y f t O A t m b t 10 l g l d tl d f m tl t p C
			30	1	38		W	90	I
			25		0		W	12	
			22	1	72 5		W	45	
			22	1	7 5		W	25	
D 5		SS	9 23	2	81		E	20	D 11
			21	5	74 5		D	40	
			1	1 5	51		E	10	

Date and b			H IST	B	L td N tl	L td S tl	L b	H l	R l
1906									
M h 5 — td		SS	1 10		32		E	3	C td tr M t ll
				2	27		E	8	
			5	1	20		L	50	
			8 58			6	L	20	
			7	1		16	I	30	
			55	1 5		13	I	0	
				4			D	30	
			52	1		25	L	30	
			2	0 5		8	I	0	I l fl l d 8
			50	1 5		38	I	0 ±	D bl f t
			18			19	F	10 ±	D l
			15	0		58	D	±	V y f
			4			62	F		D bl
			10 0			40	W	10	O l
			9 56			33	W	0	A llk
			53			6	W	100	Sl th d
			48	1	2		W	25 ±	I b d t t l
			47		6 5		W	2	A yl gl p t t t l
			44		1		W	3	
			4				W	50	T p b l t l tl m } 8 N t
			40		1		W		
			8	1	6 5		W	30	O td ly l t g t k t
			35	0	32		W	110	l ll t l V yf t C
			31	1	35 5		W	5	B l th d t p
			27	0 5	68		W	60	C td tt l
			7	1	7		W	10	
D 6		GN	8 5	0 5	81		I	30	
			4	6 5	73		I	80	
			10	5	3		I	45	B lt t l
			37		13		I	1	l p b d l tl y d t lmb g t L t + l l
			34	1	1		L	12	
			33	1		1	L	30	
			38			20	I	20	C t l b C
			32			4	F	15	L t
			31			68	L	15	F t
			30	1		17 5	W	20	
				2		18	W	30	
			9 32	1		13 5	W	15	B ht Sl gl tly b d tt p C
			31			6	W	20	B glt II llk
			30		1 5		W	10	
			5		1		W	12	
			5		16		W	1	
			20	2	31		W	1 0	Sl t t w l
			8 57	1	41		W	25	
D 7		SS	9 8	6	7		F	60	M t C
			6		71		I		
			1	1	46		F	20	
				2	38		I	15	
			6 5	1	2		I	0	
			5		21		F	80	B l tl l C t l t t l V y t O
			55	1	15		F	0	
			5	1	12		I	30	
			49	1			I		B l thw l t p
			17	1		11	E	1	
			47	1		14	F	1	
			45			18	I	3	
			44	0			I	2	
			42			30	I	10	
			42			2	F	10	
			4			31 5	I	10	
			4			37	F	10	
			38			73	D	0 ±	F t
			3			7	W	20	
			35	1 5		73	W	10	
			33			70	W	1	Sl d
			9 34	8		46	W	50	M t C
			31	1 5		27	W	5	
			9	1 5		17	W	100	Sl t g th l

Date			Time		Latitude North	Latitude South			
1906									
March 7	SS	9 21	3			13	W	10	
— 8		7	0 5			1	W	5	Γ t
		25	0				W	1	D bl
		23	4				W		
		21		20 5			W	20	
		20		37			W	20	
		20	0 5	39			W	20	
		0		10			W	1	
		17	6	17			W		
		11	1	68			W	70 ±	Γ t l t g t l
		14	1	0			W	60 ±	D l
D 8	GN	))	3	6			F	4	[l t l
		7	0 5	57			I	15	
		(		40			E	50	
		0	4	3			Γ	0 ±	A hll } C t d C
		8 0	1	(			J	90	
		50	(	21			J	90	
		40	2 5	14 5			E	1	A hll
		40		10			E	0	
		8(	7		3		E	(0	
		8	0		70 5		F	2	V y f t
			1		7		W	20	
		25			70		W	10	
		2	0		67		W	10	
		9 30	5		47 5		W	(0	11 t d t tl
		2	1		2 5		W	45	
		2	0 5		17		W	L w	B g l t } C t d C
		2	2	6			W	2 ±	S t d by t l l t 10 l g C
		0	1 5	15			W	80	\ t k 7 l g fl thw d f m t t p
		20	2 5	10 5			W	80	
				31			W	25 ±	
		15	7	44 5			W	8	
		0		71			W	1	
D 9	SS	9 10	1 5	78			E	10	4 l l d 50 h g l C
		8	1	61			I	2	
				4			I	2	Sl g l l y b l t t l
		0	1	38			E	100	l l l
		8 7	2 5	28			Γ	60	C t d t th l t l m C l l t l mb t L t + l L } Sl p d ff t n C
		53	8	20			I	80	C l
		44	1		51 5		I		L mb m l t d f L t —4 l t —58 L
		40	2		78		W	20	
		39	0 5		72		W	0	
		37			6(		W	0	
		9 31	2		0		W	5	C l
		27	4		20		W	10	B t l f th tl n C
		25	3				W	30	C t l t tl t p m t t l C
		23	0	12			W	3	Γ p b d d t d t tl t l tl t l m
		3	5	17 5			W	35	
		20	1	24			W	20	
		18	2 5	27			W	25	
		15	1	15			W	5	
D 10	SS	9 12		74			F	25	
		10	3 5	45			E	40	
		8	1 5	40			L	160 ±	S N t l
		3	1	24 5			F	2	
		1	2	22			Γ	80	C l 90 h gh C
		0	1		1		F	80	Γ t
		8 58	1		12		E	10	
		56	1 5		49		D	25	
		55	1		65		E	25	
		54	1		69		E	10	
		52	1		78 5		W	20	D bl
		51	2		74		W	30	
		50	1		6		W	10	
		9 27	4		51		W	60	
		23	3		20 5		W	45	

D t d b		H 1 S T	B	L t t d N th	L t t d S th	L mb	H g l t	R k
1908								
M h 10 — tL	S S	9 1	1 5		7	W	30	Γ l t l mb g t L t — 1 W
		20	1 5	16		W	15	
		18	0	6		W	30	S N t
		17		41		W	30	
		16	1	40		W	5	B d w tw l t t p
		1		1		W	20	
		13		4		W	0	
D 11	G N	8 8		77		E	1	
		37		60		E	15	O
				49		F	20	
		9 0		11		L	5	
		8 37	0 5	6		Γ	1	C
		37	1			Γ	30	C } C t d C
		50	1 5		1 5	E	30	
		55	1		8	D	30	Sl t g tl l
		37	1		19	Γ	30	C
		52	1		49	Γ	15	
		16			77	W	35	D t h l f l ml
		40			7	W	35	D
		15	0 5		78	W	12	
			1		60	W	30	
		9 15	5		53 5	W	50	
		12	4	14		W	30	
		10	7	25		W	30	
			0	10		W	15	
			1	1		W		} M t s t t l
			0	13		W	2	
		8 37	0	73		W	35	O F b d s thw l t t p
		9 4	2 5	81		W	20	
D 1	S S	9 12	0	8		F	20	
		10	0 5	74		I	0	‡
		8	1 5	65		E	10	‡ F t D t l d f m l b
		6		5)		Γ	2	B ght
			1 5	35		I	5	
		3		30		Γ		Sl gl tly h d t t l Sl t s thw d
		8 8	1		0	I	20	B d th l
		51	5		5	L	7	
		1	2 5		14	Γ	0	M t ll N I l Mg l b ght Γ p m t l mb g t L t 19 D
		48			3	I	0	
		41	3		18	F	4	
		40	1		78	L	0	
		38	2		61	Γ	3	
		30	0		7)	W	0	
		30			74	W		
		9 39	1		56	W	0	‡ Upp l t y f t d l t g w tw d
		37	1		58	W	80	
		9 9	0 5		18	W	0	B sh
		3 32			8	W	30	
		31	1		1)	W	25	D ll
		29	0 5	15		W	15	D
		25	1	18		W	2	} C t l t th
		2	5	21		W	60	} I g
		5	9	6		W	60	
		25	4	3		W	35	
		0	1	46		W	0	
		17		59		W	1	
		17	1	6		W	20	
		16	1	78		W	0	
		14		81		W	30	D t l d f l ml
D 13	G N	9 18		6		E	0	
		18	0 5	74		L	20	
		17	0	66		D	12	
		16		42 5		L	15	
		1	1	94		E	30	
		8	1	23		E	1	Sl htly b l t t l
		6	2	18		L	25	‡ Sl t t w l d t th t l } Oh g g
		6	2	15		F	60	

D t nd b		H I S I	B	I tt l N th	S tl	L mb	H lt	I m l
1906								
M h 18 — td	S S	9 1		5		I	0	
		0			1	L	1	
		8 45			10	E	30	S N t 1
		10	2		21	T	15	
		10	2		24	D	10	
		30	2 5		1 5	F	35	S N t 2
			1		19	I	20	T t
			1			I	0	D
		34	0		64	I	12	
		1	0 5		17	I	1	
		30			7	W	12	
		30	1		57	W	0	
		30			35	W	0	N w tt 1
		8	1	3		W	15	
		8		1		W		
		1	2	1		W	5	
			1	33		W	12	
		3	1	47 5		W	0	
		20	1	79		W	0	
		0		7		W	10	
D 14	S S	9 10	1	8		I	11	D t l df ml l ly l t 10
		1	1	34		I	2	
		0	1	4		I	60	D t l dl ml l
		9 58	5	18 r		I	25	N w tt p
		1		14		I	90	S N t
		1	1		1	I	1	
		59			9	D	35	D ll lt l il l l
			2		9	I	10	
		1			28	I	5	l pi t l l t 5 tw d
		0	1		31	I	15	Sl t g t w l h th
		18	1		84	E	15	
		16	3		13	T	15	
		4	1		0	L	10	
		11			17	T	80	I t d t l di ml b
		38	1		78	W	50	C l k
		8			6	W		
		3			5 1 5	W	7	
		9 3	0 5		17	W	5	Sl gl tly l d t i p
		89	1 5			W	2	C ll l p t l ml 5 t L t —11 W C
		31	1	0		W	1	
		7	5	4		W	5	S t d by t l l t J l g nd p l l l t l b
		4	1	31		W	15	
		21	1	1		W	10	D bl
		18	1	68		W	10	
		15	6	71		W	70	N t t 1
D 1	G N	9 30		8		I		
			1	50		I	15	D bl
		10	1 5	1 5		I	12	I t ly l ht h t 1 t F pt
		5	3	15		I	12	
		9	1		8 5	h	0	S N t 1
		0			78	T	30	
		9 50	1		83	W	0	
		55	2		80	W	5	F l m t l l t 5 tw d
					57	W	4	B ght t n
			1		52	W	5	F t t l t tl l t 1 m
			1		1 5	W	0	
			1		10	W	15	
		9 90	1		11 5	W	15	C ll t ly b lt
		28	1 5		1	W	60	B glt t 70 l h C
			5	1		W	40	A hl k
		2	1 5	8		W	60	S N t 2
		17	0 5	86		W	15	B glt t
		14	2	75		W	95	C ll fl m t l
D 16	S S	9 11		8		I	2	F lll t t p
		5		74		T	90	A h b t4 b d t l l t d t l df m l mb
		1		37		E	30	A l dl t l t h d f m l b

D t d b		H IS Γ	B	L t t d N th	L t t d S th	L mb	H ht	R m l
1906								
M h 16	S S	5 58	1		6	E	20	M t ll
— td		56			9	L	35	B l t d nd t th t l n t p
		54			16	F	40	St gl l t t l d d t l d f m l b
		0	0		52	I	10	
		40	1		56	L	15	
		48			59 5	D	25	
		41			64	Γ	30	Sl d
		49	1		53	—	35	
		40	3		81	W	2	
		35	1		0	W	10	
		9 48	6		55	W	4	
		43	1		21	W	25	Sl ltly b l t t l
		12	0 5		20	W	1	
		40	2		10	W	1	B glt
		34	1		8	W	35	B ght t d t t l
		34	1		6	W	3	
		33	2 5		2	W	20	B ght
		25	6	22		W	6	S N
		23	0 5	31		W	1	Sl t tlw l
		1	5	76		W	70	
		13	0	8		W	25	I t
D 18	G N	10 5	2 5	32		I	75	T p l gl tly l l C th llyl
		3	1	14 5		I	20	B lt l nt g tlw d
			1	7		Γ	20	C l k
		0	1		29	I	30	D
		12			81	I	15	
		12	1		79	W	4	Γ t
		11	0 5		6	W	12	
		11			36	W	12	
		13	1	1		W	12	
		9	1	14 5		W	15	
		8	0	32 5		W	60	C t d t t l
		5	1	31		W	60	B d t t l S N
D 19	S S	9 10	2	57		I	10	
			6	92		I	100 & 45	C p m w 110 h gh d d ff t l p f tl t llyd g
		3			7	L	55	C l l 65 h gh C
		8 5	3 5		98	I	30	Ih l t n tl
		53	0		14	I	30	I t
		43	0		80	E	15	
		4	0		83	—	3	
		44	1		82	W	55	
		45			79	W	30	I t l htly d t t l
		46			9	W	20	
		46			5	W	25	
		40	0		6	W	30	Sl gl tly b l t t l
		9 43	2		1	W	25	
		41	2		30	W	30	A l t f t t m fl w w tw d l tl t l
		40	0		2	W	10	
		38	1		11	W	25	T p b l d w d ly m t l b L t 18 W
		34	4	3		W	35	S N t
		3	1	6		W	15	D bl
		31	3	8		W	20	
		29	2	31		W	35	Sl ghtly b d t t l
		7	1	35		W	30	N w pt l
		24		6		W	20	
		22	3	60		W	35	A h t l t k fl w thw d f th m ddl f t
D 20	G N	8 50	1	37 5		D	20	45 h gl C C t l t t p C
		50	1	34 5		E	20	
		50	1	38		E	20	
		50	1	23		E	30	S N t
		49		18		E	30	A l dl t t d t l mb by l l t k
		49	1	10		F	15	
		48	3		10 5	E	15	
		47	1		27 5	E	60	A t k fl w hw d f m tl m d ll f t
			0 5		36	F	15	

Date			Ist	B	Total N th	Total S th	L b	H lt	Rem l
1906									
M l 0 — 2d	G N		8 15	0 5		4	I	30	
			43			73	F	10	A l t l lt h lf m l mb
			12			7)	1	(0	D bl
				1 5		58	W	1	C ll
			) 7	2		46	W	30	B l t l
				1		11 5	W	30	
				1		22	W	1	
			3	1			W	15	
				1 5	1		W	30	B l t
			8		57		W	15	l t h l f l l
			53	1 5	73		W	30	D bl
D 21	S S		) 37	2	(3		I	(	Py ll l
			33		32		L	(0	B l t l t l V y l g 210 h gh d l t g tl w d O
			6		6		Γ	1	
			1	1	0		I	(0	S N t l
			3	1			1	1	
			1			8	Γ	20	
			8 7	2		3	I	3	
			5			13	I	30	Sl t t l
			0	0		73	E	15	
			48	1		80	W	0	
			14	1		(1	W	25	
			) 5	2		7	W	3	I ly l t l t l l b
			54	0		3	W	1	I t
				2	1		W		
			1	0 5	0 r		W	20	
			41		6		W	(0	I t l
			11	2	65		W	25	(ll S N t
D 22	(N		)	1	(7		F	4	O (ll
			2	1	15		Γ	1	
			2	0 5	33 5		F	2	S t d l y t t k b t 2 l g
			1		30		Γ	1	
			2		28		Γ	0	(A l g l l w f l m l
			0	1	3 r		I	40	
			17	1	11		F	1	
			18	3	7		I	20	
			1(	1 5	4		I	1	
			15	3		18	I	1	
			11	0 5		17	Γ	20	
			11	5		81 5	W	10	
			40			77	W	30	
			38			17	W	4r	B l tl l ll
			31	1		38	W	30	
			30	1		32	W	3	
			30	1		3 5	W	3	
			30	1			W	1r	
			2(	2	11		W	30	
D 23	S S		3 9	1	72		I	15	I t
			30		70		Γ	(0	D A d l d f l b
			28	0 5	(0 5		F	20	
			27	8	13		F	30	l t l t l p
			6	1 5	37		I	0	
			20	(	7		I	70	} C t d t t p M t ll
			20	1	20		F	70	
			16	4	15		I	20	D bl
			15	1 5		13	I	10	
			11	7		13 5	b	30	
			1	0 5		86	I	30	(Slightly l d t t l
			9	1		3	I	20	
			6			(7	F	15	H lll t l p
			4	2 5		(	L	45	
			8	0 5		83	I	1	
			1	0 5		83	W	70	} S N t l
			1	1		82	W	0	
			8 57	1 5		79	W	10	
			57	1		78 5	W	50	Sl t g tw d
			56			74	W	2	A t t d t k w y f m l mb
			55			71	W	80	L t B d g w tw d t t p

D t nd b		H IST	B	L t t l N tl	L t t l S th	L b	H lt	I l
1906								
M h 23	S S	10			19	W	25	
— td		7	0 5		16	W	5	N t t p
		0	1		10	W	30	
		9 5	5		1	W	10	
		52	(	23		W	4	N t t p
		50		4 5		W	45	T p b d l d t l b t L t + d9 W
		1		16		W	±	M t g tl t l m t t p
		46	1 5	18		W	50	S N t
		43	1	1		W	3	l g l t l y l t t l w d
		4	1	6		W	10	
		39	0 5	73		W	10 ±	U l l t f t l l t t w d
		37	0	8		W	9	I t
		3		3		W	120 ±	D t l f l l d l t g t l w d t t p
D 24	S S	9 4	1	0		I	30	
		43		4		I		
		4		37		L	60 ±	S N t
		8	4	29		Γ	10	l g l t l l t g t l w l C t d t t p
		3	1	3		I	0	D l y t l C
		34	1	12		D		
		31	1	10		I	25	Γ l t l m b t l t t l
		15			49	E	60 ±	Γ t
		11	1		60	I	10	
		10	1		83	Γ		D l l
		6			79	W	5	D t l l f l l l l t t l d p t d t b t t m
		5			73	W	60	V t l d t l l f m l l
		10 3			0	W	2 ±	V y f t
		9			3	W	4	B ht t
		0	1			W	30	A t k l l l l l t l w d f th t p
		9 5	0 5	43		W	90	B l t t l
		5	0 5	11		W	80	I l k
		51		40		W	10	D i h l l l
		51	1	2		W	40	
		43		63		W	5	S l g l t l y b l t t p
D 25	G N	9 10		71		I	30	M g t t p
		10	1	0		I	30	
		7	0	31		I	0	S N t
			3	2 5		I	0	
		5		13		I	10	B l
		1	1		74	I	90	
		0	3		83	I	50	
		1	3		32	W	8	D bl
		16			8	W	40 ±	l
		10	3 5		1	W	1	C l k B ht
		14		12		W	15	A l l f t t k d t l d f m l m b d p l l l t t
		14	0 5	45		W	15	
		14	1	18 5		W	1	
		11	1	61 5		W	35	D l l
D 26	G N	9 35		78		L	4	
		35	2	71		Γ	15	D bl
		31	0	46 5		E	1	
		31	0 5	4		L	2	A l t 40 h l C
		31	0	42		E	25	
		30	0	36		F	5	S N t
		30		34		F	1	
		29	0	7		E	20	C t l C
		29	0 5	5		D	20	
			0 5		52	I	15	
			0 5		53 5	E	15	
		24			80	E	20	
		21	2		6	D	10	
		20				D	5	D t h l i l l
		44				W	1	
		42	1			W	5	S l t g th l Γ l m l l m b g i L t —24 5 W C
		40	7 5		8 5	W	4	

Dt	d l			B	I t t d N tl	I t t d S tl	L mh	H l	Rm k
	190								
M h 7		S S	1 1		1		T	60	F t Al t l b l b t d t t h d f m l mb
			19	1 5	48		I	90	D bl
					1		T	0	
			1	2	10		I	80	
			8 1	1		35	D	2	T t
			6	1		1 5	L	10	
			3	1		3	D	80	V yf t
			0	1			I	60	F t
			18			80	I	0	Sl d t l
			1			82	L	45	D t h d f m l mb l l t thw d
			11	0		51	W	0	F kll
			1 39	0		8	W	31	
			3	2			W	60	
			31	1		1	W	50	B l t b
			33	1		18	W	0	
			32	1		1	W	90	Sl t tl w d
			3	1 5		10	W	40	D F t
			11	0	5		W	1	h t
D 8		G N	5 10	3	3		L	60	B glt t
			40	1	19		I	20	C
			39	1	12		D	45	
			3	0 5			I	0	
			3			535	I	30	
			1 0	6		39	W	120	Up h lf
				4		18	W	L	I t ly l ght
			8	1		7	W	0	
			0	2	15		W	20	A 111
			70		18		W	20	Sl d t l S N t
D 29		S S	9 11	1	0		I	1	C l
			7	5	3		I		A l ttl m t C
			9 58			3	E	20	
			8	1		0	D	30	Sl g thw d
			2			15	W	0	l t tw d
			1 33	1		1	W	35	Sl t g tw d
			32	1		3	W	30	
			8	1		1	W	0	
			28	1		0	W	0	S N t
D 30		G N	10 1		1		L	12	
			1	1	31		F	3	
			10	1			E		
			5	0			I	12	
			0	0		0	W	1	Fl w t l t t p
			28	0 5		1	W	0	
			2	1		8	W	1	
				1	11		W	1	
			3	1	18		W	3	
			19		32		W	2	Fl w d t p
			1	0	41		W	1	
			1		7		W	15	
D 31		S S	0		1		I	10	F t d l d f m l mb Sl t tw d
			9 7	0 5	8		I	0	
			5		40		I	0	T t
			1	1	9		T	5	S N t l
			18	1 5	4		I	10	
			1	0	1		I	1	D bl
			3	0		54	E	10	
			1	0 5		74	L		Sl htly b l t t p
			3	0 5		66	W		F t
			30			81 5	W	25	
			9 30			28	W	10	
			25	1		14	W	0	
			27	1		10	W	25	
			2			8	W	30	
			16	1	11		W	2	M t th t p t t p
			18	2	11 5		W	30	S N t
			1	1	19		W	1	

D t l b		II IS 1	B	L t t l N th	S tl	mb	II lt	R m k
1906								
M h 31	S	9 12	1	28		W	0	C t l t l
— td		1	1	30		W	0	F C
			1	70 5		W	5 ±	F t
Ap l 1	G N	8 40		3(		I	5	
		39	1	32		D	30	
		3J	4	30		D	1	C t d t b
		39	1	6		D	1	
		37	2	17		E	12	
			1	7		L	15	
		3	1	1		I	1	
		34			24	L	1	
		34			2 5	F	1	
		30	1		78	D	0	
		31			0	W	0	A 111
		9C	5		(4 5	W	70	t l t l Γ t l (l l yd d C
		2			8	W	45	B l t l
		2	1		5	W	30	C t d t tl l t l m O
		5	1		1	W	1	
		2		2		W	1	
		51		18		W	1	
		1	4	27		W	50	
		46		38		W	35 ±	Slightly b l t l
D 2	S S	9 8	1	78 5		I	1	
		25	0 5	7		Γ	60	
		1		(1		D	0	A l t f t l l t t l l f l b l l l l l t
		15		42		I	1	
		13	4	3		L	35	
		10	1	18		Γ	10	C l l l (0 \ l) l tl w y M t ll
		6	1	14		F	50	M t ll
				0		I	20	
		2	1		0	Γ	20	
		8 1	0		71	W	50 ±	b t
		4	0		((	W		
		9 6			40	W	1	
					3	W	0	Slgl l l d g tw l
		51	4		91	V	30	
		53	1		25 5	W	20	
		0			11	W	2(	D bl
		48	0 5		9	W		
		48			8	W	15	
		47	1	11		W	30 ±	lw l d t l t g t t p
		16	0 5	14		W	20	
		4		17		W	10	
		4	3	1		W	20	A 111
		88	10	3		W	0	
		32	8	69 5		W	(0 ±	Γ
D 3		9 7	1	16 5		I	35	C
		7	0 5		10	V	20 ±	S N t
D 4	S S	9 2	0	83		E	40 ±	V y f t
		22		82		E	60 ±	
		22	0 5	79		Γ	60 ±	D Slgltly l d t t p
		2	0 5	7		D	60 ±	V y f t
		17		58		L	50	A l t
		13		46		E	25	
		11	3	40 5		D	2	
		10		24		F	10	
			2 5	19		D	(0	M t th t p m t t p
		0	0 5	12		Γ	80	Ab t 7 b d t t p T l k
		8 58		9		Γ	5	Sl t g t d
		56	1 5	1		E	10	
		51				F	75 ±	D bl f t f gm t y
		48	1 5		21	L	20	
		46			35	F	20	D bl
		4			62	E	25	
		40			74	E	40	Ab t 2 b d but d t h d f l mb

D t d l		II I S l	B	t l N tl	S tl	I b	II lt	R l
190								
Ap l 4 — td	S S	10 10			61	W	10	D bl
		8			51	W	0	
		9 46	1		13	W	2	Γ t
		1	1 5		89	W	0	
		46	1		91	W	25	B d t t p
		1	1		C 5	W		
		14			24	W	5	D t h d t l mb t g th t p m t l
		42	5		11	W	10	
		10			1	W	0	
		39	0			W	30	
		37	5	17		W	0	
		3	1	34		W	2	
		1	2 5	40		W	0	
		30	0 5	C7		W	35	B d d t t l
		8	0	7		W	0	Alm t l t l l f l b
		7	1	78		W	20	D bl
		25	0 5	80 5		W	0	
			0 5	8		W	5 ⊥	V y f t
D 6	S S	9 0	1	37		I	60 ⊥	I t l t t d
		8 58	1 5	21		I	40	B t l t l t g tw d Sl g tl w l
						D		
		16	1		74	I	10 ⊥	V y f t
		10			75	W		
		39	1 5		72	W	20	D ll
		9 31			23	W	30 ⊥	y f t f l l l l t h d f m l mb
		31	0		17	W	10	} N t t I
		1	0		13	W	10	
		30		21		W	⊥	A l t t n
		9	1 5	7		W	0 ⫲	D
		7	0 5	37		W	10 ⫲	
		18	0	1		W	20	
		11	0 5	74		W	20	I t l t t l w d S N t
D 7	G N	8 30	1	50		I	10	C
		38	1	39		I	3	
		8	1 5		1	F	60	
		3	1		(	I	60	
		15	5	16		W	0	
		44		26		W	0	
		43	1	31		W	1	
		10	1	36 5		W	30 ⫲	
		40	1	38 5		W	30 ⫲	
D 8	S S	9 22		81		I	10 ⫲	A y f t d t l l f m l mb
		16	0 5	56		I	1 ⫲	
		11	0 5	47		I	30 ⫲	I t
		10		10		I	10	
		2	2			Γ	40	} C ll
		0	2 5			Γ	0	
		8 7	1 5		8	L	3	
		57	2		1	Γ	20	
		55	0 5		0	I	20	D bl
		53	1		30	F	10 ⊥	V y f t
		44			77	W	3	B l t t p
		10			71	W	50	(ll
		9 45	1		C9	W	0	
		43			51	W	20	
		10	0		16 5	W	30	
		38			9	W	20	
		36	2	8		W	2	C t d t tl t l m by t k t t I
		36	5 5	15		W	40	
		35	2	21 5		W	3	
		30	5	28 5		W	60	I p fl b t 5 t th w t
D 9	G N	8 57		84		I	30	} I t l l f m l mb l d t l
		56		82		E	50	
		56		80		Ω	45	

D t d b		H I T	B	L t t l N l	L t t l S th	I b	H bt	R k
1906								
Ap l 9	G N	3 5		57		Γ	0	
— td		54	1 5	51		E	60	
		4		45 5		Γ	60	
		19			7	I	20	
		15	1		33 5	L	70	B d t t p
		44			15 5	E	15	
		12	1		61 5	D	15	
		40			C5	Γ		
		6	1		75 5	W	35	
		3	0		67	W	0	
					52	W		D bl
		9			44	W	20	
		1	6 5	26		W	50	\ y f t O
		0	1	34 5		W	30	Sl htly b d t t p
		8 9	0 5	15		W	12	
		58	1	78		W	20	D bl
D 10	S S	0 31		93		E	80 ±	F t d t l lf m l ml
		30	1 5	81		F	30	
		28	2	C1		F	20	D ll
		27		58		Γ	15	
		7	0	5C		F	2	
		0	1	5		I	150 ±	N t 1
		12		(		I	C0 ±	S \
		11	0		14	L	50 ±	S N t 8
		11	0		16	D	5 ±	
		7	1		24	Γ	90	T m t l mb g t L t 27 E
		0	1		32	Γ	120	S N t 4
		8 6			35	Γ	1	D t l lf m l ml l t g thw d
		51	1		2	Γ	20	
		3	2		6	F	20	D bl
		0			(	E	15	Γ kl k
		48			78	Γ	2	D t h d f l mb
		43			75 5	W	55	S N t 5
		9	1		55	W	3	
		54	0 5		50	W	4	B l t t p
		0	1 5	3		W	15	
		47	1 5	10		W	15	S N t 6
		46	1	13		W	20	
		43	8	22		W	0	
		40	2	31		W	4	
		38	1	38 5		W		
		36		48		W	15	4 l t t k l t h d f m l ml d par ll lt t
		33		69		W	20	
D 11	S S	9 1	1	81		Γ	3 ±	} Γ t
		15	1	8		l	45	
		12	1 5	C8		Γ	15	
		1	0 5	71 5		D	20	
			0	6		F	70	S N t 1
		1	0 5	1C		I	(0	S N t
		9 59		10		Γ	0	
		57	9	(		D	30	M t O
		49	0 5	8		D	30	T p l l d fl w tw d l t 3
		21	0		7	Γ	2	S t 3
		16	8		29	F	70	
		3	1		33 5	E	1 ±	C
		44			3	F	50	S N t 4
		4			50	E	30	D t h d f n l mb
		10	2		54	E	1	
		39	1		67 5	E	15	B ght
		36	0		82	E	35	
		34	2		80	W	60	
		32			78	W	60 ±	B d t t p } F t V y f t O
		31			76	W	±	
		31			74	W	20	
		28	3 5		54	W	50	
		9 35	1 5		9	W	15	S N t 5
		33			11	W	15	} T p b t t w d h tl + 10 12
		32	1		8	W	20	
		9	2	2		W	3	9 N t 6

D t nd b		H I l	B	L t d N h	L t d S tl	J nb	H lt	R l
1906								
Ap l 11	S S	9 6		33		W	30	
— td		1	1	3		W	0	F t
		1		5		W	80	F t C
		18	3	7 5		W	50 ±	
D 1	G N	8 1	(	83		Γ	8	A llk f t
		40	1	56 5		Γ	0	Γ t
		37	1	33		D	0	B glt
		37	1			L	20	
		34	1 5	5		D	(0	Sl t tlw l l l d d b ght
		31		10		Γ	2	
		30	Γ		19	D	0	
		7	0		62	D	50	S N t l
		(	1		78	Γ	15	
		5	0		8	W	15	Γ l m t l
		0	1		75	W	45	
		1	0		(2 5	W	1	
		) 0			51 5	W	60	N w t t l
		8 F	1		J	W	(0	M t t t p
		5	1		6	W	(0	
		5			2	W	30 ±	F t
					0	W	30 ±	S N t
		40			12	W	1	
		28		(		W	30 ±	C Ab t l b d pt b
		4	3	21		W	0	
		1		70 5		W	0	Sl ghtl b l t l
D 13	G N	8 29	0	2 5		I	0	
			1	13		I	12	N th l glitly t ll C
		2	1		91	W	3	Γ t fll m t l
		20	6		7	W	45	S l l t tl
		1	7		56 5	W	60	N t t p
		12			3	W	90 ±	S N t l
				4		W	L w	S N t
		30	1	16 6		W	60	
		36		18		W	I w	I t ly b ht
		36	1	20 5		W	L	
		36	1	22		W	I w	
		3	1	20		W	15	
		34	2	37		W	35	
		3	0 5	19		W	15	
		30		76		W	0 ±	Γ t
		30	0 5	77		W	30 ±	L t l ghtly b l t t l
D 14	S S	6 5	0 5	8		Γ	60	
		5	2	73		F	25	D bl
		47	1	30		E	15	
		47	0 5	25		L	15	
		46	2	5		E	10	
		4	4	1		I	0	L t d f t l t l ml g L t t + 16 5 E
		40		18		E	0	
		40	1	12		E	1	T l tw f m l t p m n 30
		10	0 5	11		D	2	l gl d l t g tw d C
		37			1	E	5	
		6	3		4 5	E	15	
		34	1		11	F	40	Γ ll
		8	1		72	L	100	Sl t g thw d
		26			79	E	15	
		5	1		81	I	25	
		28	1 5		83	E	45	
		20			82	W	50	
		19	0 5		80	W	10	
		18	0 5		7	W	45	Γ ll
		18	0 5		76 5	W	10	
		16			75	W	55	
		14	1		59	W	2	
		18			58	W	35	
		10	1 5		55	W	140	Sl t w tw d b t l l t tw d

D t	d b		H IST	B	L t t l N th	L t t l S th	L mb	H ht	R m l
	1906								
Ap 1	14	S S	9 5			8	W	0	Sl t thw d Sl l tl b d pt b
—	tl		3		9		W	30 ±	Sl t g tl w l
			22	2	6		W	10	
			0	9	14		W	0	
			19		24 5		W	5	S N t
			17	6	34		W	70	
			14	0 5	41		W	20	B gl t t t p
				0	7		W	30	T p b d l t th t l
					80		W	70	T l l
			5		84		W	35	
D	15	G N		3 5	73		E	20	T t h lf f m 3f l gh C
			8 46	0 5	8		E	1	D bl
				1	39 5		E	L w	30 h gl C
			45		30 5		E	30	N tl d t t m t f t
			43		7		E	12	
			43		2		D	15	
			41	2 5	10		E	50	
			40	2		17 5	E	1	
			39			27 5	E	0	
			39	1		31	E	20	
			36			65	E	20	
			36	1		81 5	E	50	
			36	1		8 5	D	15	
			35	2		83	W	40	
			35			82	W	5	
			3	0		7	W	40	T kl k t t l
			30	5		59	W	3	
			30			56	W	60 ±	D t h d f l ml
						7	W	2 ±	} Fa t
				0 5		5	W	35 ±	
			35	1 5	33		W	60 ±	S N t
			55		37		W	50 ±	T l m t th l t l m n
D	16	G N	8 23	1 5	73		T	35	N t t l
			2		58		D	12	
			22		5		E	12	
			20	1 5	3		I	55	S N t l
			20	5 5	28 5		T	55	I t l lf l t
			14	7	20		I	20	M t h l t l t t l
			14	8	13 5		L	20 ±	
			10	1		3	T	15	C p m 2 l d
			6	1		11 5	F	1	
			6	1 5		18 5	D	20	
			5			27	L	60 ±	A t t t k l d tl w d f m th l l t
				5		35	D	50	A f t g l h
			0	1		44	E	3	
			0	0		47	E	12	
			7 58	3 5		77	W	60 ±	H l l ly t l th l mb t tw p t
			56	1		66	W	30	
				0 5		43 5	W	20	
			8 32	0 5		37	W	35	T t
			32			35	W	60 ±	F t D t l d f m l mb
			31	0 5		8	W	30	b t f l m t l
			30		8		W	00 ±	S N t 2
			27	(	35		W	25	
			25	2	46 5		W	20	
			24		75		W	30	Sl d t l
			24		83		W	35	
D	17	S S	9 30	4	71		E	75	D bl E t h lf f nt
			8		59		F	10	
			24	3	41 5		E	40	
			21	4	33		E	3	A l l k } C t d by f nt l d t t p
			16	0·5	24		E	15	C t d by t k t th n t p m C

D t	l Ob		II I S I	B	L t t d N tl	L t t d S tl	L b	H lt	R k
	1906								
Ap 1	17	S S	9 16	1	19		E	15	S N t
—	t3		16	1	17		I	4	
			16	1	15 5		I	30	
			11				I	15	
			3			13	I	5	p fl w thw d 3
						0	I	20	B d th l t t p
				2		26	F	70	
						5 5	I	60	B d t t l C t d t t p
						30	F	60	
			0	1		84	I	70	
			8 58			38	F	70	D t h d f l mb
			6			18	F	80	S N t
			1			11	D	30	S t d l y l t f t t k
			2	0 5		54 5	F	1	
			1			6	I	20	
			11	1		6	I	1	
			15	3		71	W	6	D bl
			33	5		7	W	30	
			3			41	W	0	
			30			32	W	15	Th tw f m l gl l m 25 h gh
			30			31	W	15	t 9 l 3
			3 1			11	W	0	Sl d t l
			0		9		W	70 ±	B l t t p 110 l l (F t b th l y l g d C
			48	1	1		W	30	T l N t 3
			43	6	30		W	60	
			38	4	43		W	0	D bl
			33	1	77		W	30 ±	F t l t tw l
			3		90		W	10	Sl t g w tw d
D	18	G N	3 4	1	7 4 5		F	8	
			0	5	6 5		I	0	
			8 8	2	41		F	60 ±	
			6	2	91		I	30	F l t l l y t k C
			53	1	30		I	4	
				2	16		F	0	
			2	1	9		I	6	C C l k f t
			2		8		I	20	Sl d f l l t l l l l mb
			1	4 5		11	F	1	
			0	1		28	E	0	100 l h C
			47	1		4	F	15	
			46	0		47	I	60	Sl l t l y l l t t l
			11			4	F	12	
			18			83 5	W	15	
			10	1		80	W	110 ±	C l l f l m t l
			38	1		61	W	20 ±	D l l
			3 18	1		38 5	W	30	
			1			21	W	1	
			16		9		W	45	I t
			1	2	12		W	40	C l l
			10	7	8 5		W	4	
			10	1 5	3		W	30	
			9	1 5	13		W	5	
			6	6	81 5		W	4	F l t l
D	19	S S	8 55	0	76		I	50	
			6	1	70		F	60	B d t t I T I t l mb g t I + 6) l 71 D C t d t t p n C
			55		61		F	15	
			4	0	69		E	10	
			9		5		E	15	
			1	1	13 5		E	20	
			49	6 5	36		E		
			19	0 5	34 5		F	25	
			4	5	16 5		E	5	B ght t
			14	2	5		E	0	
			48	2		6	E	10	C m n y l fl t l p y
			4	0 5		11	E	0	t b nd 05 h gl

D t	md b		H IS T	B	L t l N tl	L t l S tl	L mb	H ht	R l
	1906								
Ap l	19	S S	8 40			13	E	35	
—	td		36	1 5		18	D	10	
			9			43	J	0 ±	Sl t tlw d } C t l t t p f t d
			3			47	L	80 ±	F t } 100 h l n O
			32	1 5		66	D	80	
			30	0 5		70 5	E	0	
			20	0 5			E	15	
			5	3		8	W	1 0 ±	T t Upp ll w l t d t l l f l tl O
			) 5	0 5		(1	W	1	
			5			5	W	15	
			3			3)	W	40	
			2	1 5		35 5	W	30	D bl
			1	0 5		32	W	1	
			18	1 5		21	W	30	} I p t lly f t l n l t l
			15	1		18	W	(	
			13	0		2	W	50	
			1	1 5			W		
			10	1 5	9		W	8	T l l t h l f l w p t
			7	0	0 5		W	0	Cl & g p dly
					0		W	0	B d tw d t t p
			1		8		W	30	Sl t g w t l
D	20	G N	9 1	0	76		T	1	
			15	4	71		F	30	
			1	1	66		E	20	T p t l b g t L t + 64 5 l
				4	2		F	0	A h l l w tl l w p m d th l
			5		1h		T	60	)0 l h O
			2	0		18	L	1	
			2			0	D	1	
			0	0		66	F	3	
			0	3		71	T	35	D l l
			8 56			67 5	W	1	
			5t			6(5	W	15	
			4	1		60	W	7	
			9 2			5	W	0	
			2(	1		40	W	30	D bl
			5	7		28	W	1	C t
			22	1		2	W	75	100 l gl C
			20	4	14		W	5	
			2(	0	18		W	1	
D	21	S S	8 57	1	3		D	4(±	
			5(	1	67		T	20 ±	
			54		4(5		F	20	C l 2 l l t l
			51	1	9		F	30 ±	)0 l gh O
			49		19		I	7	T t } C t d (
			47		1(		I	7	
			14		9		I	1	
			43	0 5		3	E	1	
			39	0		47	I	30 ±	Sl t g tl d
			37	2		66	F	2 ±	D
			3	1 5		1	T	40 ±	
			26	1		58	W	20	D bl
			41	1		43 5	W	30	C (l l
			41	2		30	W	30	C Sl t g thw l
			41			9		120	S N t l
			41	2 5		5	W	1	C
			41	1 5		1 5	W	120	C
			9 25	1	31		W	3 ±	S N t 2
D	22	G N	9 6	1 5	78		T	30 ±	
			5		4		E	30 ±	
			8		61		L	20	Sl d
			2		46		D	25	
			0	1	25		L	20	
			0		21 5		E	20	
			8 58	1	17 5		E	80 ±	B d t t p 65 l gl C
			56		9		E	12	
			55			19	E	30	Sl d D t h d f m l mb
			52	1 5		29	D	20	

D t d b		H I S T	B	L t l N tl	S th	L b	H lt	k k
190(								
Ap l 22	C N	8 51			8	I	20	Sl d
— 22		0	1		0	I	4	Al t d t l d f l ml T p p t d
		1	3			F	30	
		45	1		91	I	3 ±	
		1	0		85	L	20 ±	
		) 17	1		46 5	W	1	
		1	1		1) 5	W	10	C l k
		1			15 5	W		
		1	1		10	W	20	3 l gh C
		13	1			W	(0 ±	Sl t thw d } C t l C t p
		10		35		W	30	A f t l dl t w y f l mb
		5		61		W	0	
				((		W	15	
D 23	S S	0 8	3	81		I	9 v 0	S l l t th
		58	1	3		F	85	
		1	0	(		I	1	Sl l ly l d tl dll
		3		1 ?		F	30	
				15		I	1	
			1	11		I	20	
		15	1	30		I	90	S N t 1
		16	1	20		I	1 0	S N t 1
		11	1	12		I	10	D bl
		13				I	20	
		4	1	1		I	40	S N t 3
		40	1		2	I	1	
		39	0		28	I	1	
		38	0		1	F	1	
		37			55 5	I	1	
		3	0		6 5	F	15	
		33	1		69	F	3	
		32			79	J	(	L t B b t l b l b t d t l l f m l ml l p l t 4 l l
		31			79	F	(0	B l b d b t l t l d f l l
		30			81	F	60	F l l l
		5	1		84	I	40	I t
			0 5		85	I	0	
		20	1		77	W	20	
		10 0			6	W		C l l t l l d t l 160 gl
		20	1		48	W	30	
		18			90	W	10	
		1	1		0	W	3	B gl t t ll
		8 3	0		2	W	±	C
		10 13		3		W	2	
		11		2		W	40	B l t t t l t l l
		18	2	38		W	70	L t l t t l l y l t b t t l l t t
		7	3	18		W	20	D ll
				8		W	0	F ll F l t l t L t t 6 3 W C l y f t
		1	0 5	81		W	60	
		1		8		W	4	D t l l f m l b
D 24	G N	9 8		81		I	3	
		8	0	7		F	20	
		8	1 5	8) 5		I	30	
		(	1 5	4(		I	40	B t t
		5	1	3)		I	30	
		4	0	31		I	90	A l t t n fl w tl w l f th t l lt l g C
		0	15	18		D	95 & 80	Th C p m t n l 9) h gl t tl t ll t p t
		8 51	1		2	F	30	C f G b d
		50			8	L	40	N t f l C l l t g l l
		50	10 5		18	D	85 & 75	F l t l mb g t L t – 10 l (
		44			54	F	15	
		41	1 5		71	E	30	D bl
		40	0 5		75	F	2	
		40	0		79 5	I	15	
		39			81	E	40	D t h d f m l mb
		38			74	W	30 ±	
		9 22			55 5	W	10	

D t d b		H [S T	B	L t l \ th	L t l S th	L l	II lt	R l
1906								
Ap l 24	G N	9 21	1 5		40	W	60 ±	D bl 3 b l t b C
— 25		19	1		9	W	12	
			0 5	17		W	15 ±	
		16		1		V	15	
		16				W	30	
		14	3	37		W	40	
		10	2	4		W	1	
D 25	6 8	9 17	2	73		Γ	30	
		16		68		I	6	Sl l t l
		16	1	66		I	60	
		13	9	17		Γ	7	
		10	0	34		Γ	70	S N t
		7		3		D	1	
		7		19		F	1	C t d b
		7		1		I	15	
					)	Γ	5	F 11 k t t p
		2			16	I	90	T 1 k Γ t
		8 9	3		10 5	F	80	
		7	1		1	I	15	
		54	2		4	Γ	4	
			1		J	I	30	
		1	1		80	I	20	
		49	1		78	W	80	Γ t
		) 36	0		41	W	40 ±	D
		3	0 5		37	W	2	D Sl gl tly l d t t l
		34	0 5		5	W	40 ±	D D
		3	0		2	W	0 ±	Γ t M t g t t l
		32			18	W	0 ±	
		31	1		1	W	20	
		31	1		1	W	20	
		29			0	W	30	
		9		)		W	40	
		27		1 5		W	20	
			1	7		W	0	
		5	1	29 5		W	1	
		22	1	37 5		W	10	
		20	1	73		W	10	
Ap l 27	G N	8 31	1	6(		I	30	C
			1	1		I	12	D bl
		12	0 5		18	E	15 ±	
		11	0 5		1 1	F	1	
		10	(5		74	L	0 ±	T p l l t g tw l
		8	1		75	N	15	
		38	1		12 5	W	60 ±	C p m lghtly b d
		31	1		7	W	15	
		30		15		W	30 ±	
			0 5	0 5		W	20	
		9	1	27		W	30	45 l h C (t d t th t p m
		29	8 5	30		W	40 ±	S N t
D 28	8 9	9 13		78		F	75 ±	I p l ghtly l l \ f t
		13	1	70		E	75 ±	Sl ghtly l d C
		10	1	30		E	25	C l k
		7	18	2 5		F	2	
		3	8	3		Γ	25	b l t d t tl
		8 57	3		58 5	E	35	
		55	1		58 5	L	30	
		47			65	D	0	F nt
		45	2		74	I	40 ±	D
		43			76 5	F	15	
		41	0 5		79	W	100 ±	F nt b d t l
		9 35	1 5		57	W	30	10 l gl (
		8 37	3		50	W	30	
		35	3		45	W	25	
		32	1 5		14	W	30	B gl t t t p tl t b
		28	1		0	\	90	g b gl t l l l
		25	4 5		12	W	50	B ght
		9 29	2	13		W	20	
		27	4	3)		W	60	S N t