

Kodakanal Observatory,

BULLETIN No VI

WIDENED LINES IN SUNSPOT SPECTRA

No 584

LAT -12

LONG 101

CLASS—IVc IVb IVa

Date—1905 July 5-7

W	l	g th	M	W	d	g	N	ml	f
							Ob	b	n
4882	783							1	
4864	919		8					2	
4889	652		7					1	
487	671		7					1	
5001	16		6					1	
5000	829		8					2	
5013	179		7					1	
5016	840		7					1	
023	052		8					1	
5045	582		7						
5069	174		8				2		
5087	239		6					1	
5126	270		8					1	
5117	052		8						
710	363		8				2		
160	554		8					1	
219	875		7					1	
5225	895		8					1	
5428	474		8				8		
5460	572		7				2		
5482	078		7				1		
5490	87		7				2		
5627	859		8				2		
5671	071		9				8		
5672	047		8				8		
5687	088		7				1		
5700	402		6				1		
5708	787		8				1		
5707	204						8		
5716	871		7				1		
577	7878		9						
5781	487		8				2		
5787	288		9				8		
5748	645		8				2		
Ob			-KVS				dB		

No 589

LAT -15

LONG 57

CLASS—IVc IVb IIc IIIa IIIb

Date—1905 July 8 14

W	l	g th	M	W	d	g	N	ml	f
							Ob	b	n
1862	029						7		1
1862	789						7		1
4864	911						7		2
1875	071						8		1
4885	124						7		1
5001	65						8		2
009	820						8		2
5013	179								1
5016	840						7		1
5028	052						8		
5066	174						J		1
5087	230						8		1
5147	052						7		
5210	87						8		
522	095						8		
121	474						8		2
400	872						8		
567	859						7		
567	071						8		
5672	047						7		
5703	707						7		1
5707	204						7		1
727	878						7		1
5781	487						6		1
5787	288						9		2
5748	645						8		2
Ob							-59		

No 590

LAT - 14

LONG 50

CLASS—I IIc IIa IIIa IIIb

Date—1905 July 8 14

W l gth	M W d mg	N mb Ob t	f
488 029	7	1	
4882 788	7	1	
4864 919	9	2	
4875 771	8	1	
4885 124	7	1	
5001 175	8	2	
5009 829	8	2	
5013 479	7	1	
5016 340	7	1	
5023 052	8	2	
5066 174	9	1	
5087 289	8	1	
5147 652	9	2	
5219 875	8	2	
5225 695	8	2	
5426 47	8	2	
5 60 572	8	2	
5627 859	7	2	
671 071	8	2	
687 04	7	2	
5703 797	7	1	
5707 204	7	1	
5727 878	6	1	
5731 487	6	1	
5787 88	9	2	
5748 845	6	2	

Ob -SS

No 594

LAT + 13

LONG 345

CLASS—IVc IVe

Date—1905 July 14—17

W l gth	M W d mg	N mb Ob t	f
4864 919	9	4	
4875 671	7	1	
49 047	6	1	
5001 165	8	3	
5009 829	8	2	
5013 479	7	2	
5016 340	7	2	

W l gth	M W d mg	N mb Ob t	f
5023 052	8	3	
5043 761	6	1	
5045 58	7	4	
5086 1 4	8	4	
5184 6 7	8	1	
5186 270	6	1	
51 8 690	6	1	
5143 901	7	1	
5147 652	8	4	
5150 868	8	2	
5160 186	6	1	
5168 074	6	1	
5219 875	8	3	
5225 695	8	2	
5300 929	7	1	
5426 474	9	4	
5400 2	8	2	
5482 078	7	1	
5490 307	8	2	
5490 905	7	1	
5627 859	7	4	
5671 071	8	4	
56 2 047	8	4	
687 068	6	1	
5689 812	7	1	
5703 797	7	3	
70 204	7	3	
5712 996	6	1	
5727 878	8	2	
81 427	8	2	
5727 288	8	4	
5743 645	8	3	
866 675	7	1	
5978 768	6	1	
6089 358	8	1	
6063 080	6	1	
6064 853	5	1	
6081 665	5	1	
6085 470	6	1	
6243 3 0	9	1	
6253 927	6		
6261 318	6	1	
6280 598	6	1	
6303 024	8	1	
6455 320	6	1	
6471 885	7	1	
6438 130	5	1	
6499 68	5	1	
6673 030	9	1	

Ob -KVS dSS

No 604

LAT + 14

LONG 322

CLASS—IIIa IIc

Date—1905 July 24

W l gth	M W l g	N mb t	f
4864 919	9	1	
4875 671	8	1	
5009 829	9	1	
5028 052	8	1	
5080 174	8	1	
5147 652	9	1	
5219 8 5	8	1	
5225 695	8	1	
5426 474	0	1	
627 859	7	1	
5671 071	8	1	
5672 047	8	1	
5703 797	7	1	
5707 204	7	1	
5737 288	9	1	

Ob —S 5

No 612

LAT + 15

LONG 79

CLASS—IVa IVb

Date—1905 August 5 7

W l gth	M W d g	N mb t	f
4864 020	8	1	
4864 919)	1	
4875 6 1	7	1	
4928 511	7	1	
4985 107	8	1	
5001 185	9	1	
5009 829	8	2	
5028 052	9	1	
5045 582	7	1	
5088 174	8	2	
5087 239	6	1	
5184 697	6	2	
5186 2 0		2	
5148 901	6	1	
5147 65	8	2	
150 868	8	2	
5219 8 5	8	2	
5 5 695	9	1	
5426 474	9	2	
5480 572	8	2	

W l gth	M W d g	N mb t	f
5490 267	7	1	
56 7 850	8	1	
5071 071	8	2	
5672 047	8		
5727 673	9	1	
5781 427	8	1	
737 288	9	2	
5748 645	8	8	

Ob —K V S d S S

No 613

LAT — 16

LONG 61

CLASS—IIb IVb V

Date—1905 August 4—9

W l gth	M W d g	N mb t	f
4862 783	6	1	
4803 883	7	1	
4804 919	7	5	
487 671	8	2	
4920 047	4	1	
4928 11	7	1	
4985 107	6	3	
001 185	8	2	
500 829	7	4	
5010 340		1	
028 0 2	8	2	
7043 761	6	3	
045 582	7	4	
5053 170	6	1	
7086 174	7	5	
5087 239	5	3	
5122 293	5	1	
7122 988	6	1	
124 697	8	2	
13 270	7	2	
138 690	7	1	
5148 101	7	3	
5147 652	8		
5150 808	7	5	
5156 823	6	2	
5160 554	7	1	
5104 724	6	1	
5219 875	8	4	
5 25 695	7	4	
5228 742	5	1	
5426 474	9	5	
5480 572	7	4	
5477 901	5	1	
5483 078	6	3	
5490 267	7	4	
5490 905	7	2	

W l gth	M W d g	N mb t f
5503444	9	1
5627859	8	5
5671071	9	5
567204	8	5
5687063	5	1
56896J4	5	1
5698746	5	1
5708797	7	5
5707204	8	4
5716671	8	1
5727878	8	5
5731437	8	5
5737288	9	5
5740195	6	1
743045	9	5
767550	6	1
574250	5	1
586567b	6	2
5887785	6	1

Ob -KVS dSS

No 620

LAT + 12

LONG 348

CLASS—IVa IVb IVc IVe

Date—1905 August 8 11 12 15

W l th	M W d g	N mb t f
4862029	7	2
4864919	8	2
48761	7	3
4885264	7	1
4885107	7	3
5001165	7	1
5009820	6	3
501347	8	1
5018840	8	1
50280	9	1
50311	6	3
50182	6	4
5060174	6	4
50889	6	2
5140886	7	1
5138301	4	1
514652	7	3
5150868		3
5156823	4	1
5167168	4	1
51(011)	4	1
5168071	4	1
5219875	8	3
523695	8	1
530099	9	1

W l gth	M W l g	N mb t f
5426474	9	3
5460572	7	3
549036		3
5490905	7	1
550417	8	1
589288	5	1
588025	6	2
627859	7	2
5671071	8	3
5672047	8	3
5708797	8	1
5707204	8	1
5727878	8	3
5731487	7	
573288	J	3
5748645	8	3
86875	7	1

Ob -KVS lSS

No 623

LAT + 15

LONG 324

CLASS—IVa IVb

Date—1905 August 11, 17

W l th	M W d g	N mb t f
4862029	8	1
4861019	6	2
4875871	8	2
4885264	7	1
4885107	6	1
500116	7	1
5009829	7	2
5013479	8	1
5018840	8	1
5028052	9	1
5048761	7	1
5045582	6	2
5066174	7	2
5110886	7	1
5147652	9	1
5150968	8	1
5219875	8	2
5225695	8	1
5238742	8	1
5239197	7	1
5300929	J	1
5426474	9	2
5460572	8	2
5490367	8	
5490905	6	2
550411	8	1
5537928	6	1

W l gth	M n W d m	Numb Ob t
5588 025	7	2
5627 859	8	2
5671 071	8	2
5672 047	8	2
5708 79	8	1
5707 204	8	1
5727 878	7	2
5781 437	7	2
5737 288	8	2
5748 645	8	
5886 675	7	1
6089 958	6	1
6199 308	7	1
6248 820	9	1
6806 024	8	1
6830 316	7	1

Ob -S b d G N

No 626 A

LAT +

LONG 278

CLASS- I IIIb IVb IIa IIIa

Date-1905 August 20 21

W l gth	M W d g	N mb Ob t n
4884 919	6	2
4985 107	6	1
5009 829	6	2
5016 810	5	1
5049 7 1	5	1
501 582	6	2
5006 174	6	2
5087 280	6	1
5134 697	6	1
5186 270	6	1
5148 901	6	2
5147 652	6	2
5150 368	6	2
5210 875	6	2
298 742	5	1
5426 471	7	2
480 57	6	2
5482 0 8	5	1
5480 867	6	2
5827 859	8	2
58 1 071	8	2
5872 047	8	2
5708 797	5	1
5707 204	6	1
5716 671	6	1
5727 878	9	1
5781 437	8	1
5787 288	9	1
5748 645	8	1

Ob -K V S d G N

No 626 B

LAT +

LONG 266

CLASS-I IIIb IVb IIa IIIa

Date-1905 August 21

W l gth	M W l g	N Ob	b t	f
5009 829	6		1	
5048 761	6		1	
5048 582	7		1	
5080 174	6		1	
5087 29	6		1	
5 48 601	7		1	
147 052	6		1	
5150 368	6		1	
219 87	7		1	
5420 174	8		1	
5627 859	8		1	
671 071	9		1	
672 047	8		1	
6727 878	9		1	
6731 437	8		1	
6787 288	8		1	
748 61	8		1	

Ob -K V S

No 633

LAT + 16

LONG 115

CLASS-IVd IVa IVb I

Date-1905 August 27 28

W l gth	M W d b	N Ob	l t	f
481 1919	6		1	
4985 107	6		1	
5009 8 9	7			
5018 761	6		2	
5048 582			2	
058 056	5		1	
506 174	6		1	
5087 288	6		1	
5143 901	6		2	
5147 652	6		2	
5150 368	6		2	
5219 875	6		2	
5420 174	8		2	
5480 572	8		2	
5490 867	7		1	
558 928	5		1	
5 88 025			1	
5627 859	8		2	

NO 637
LAT - 18
LONG 62
Class—IVa IVb IVc IIIb I
Date—1906 August 30 31 and Sept 8

W	I	h	M	N	Ob	—K V S	P S S
1	1	1	8	8	6198 898		
1	1	1	6	6	6866 675		
1	1	1	8	8	6748 645		
2	2	2	8	8	6787 288		
2	2	2	7	7	6781 487		
2	2	2	8	8	6727 878		
1	1	1	6	6	68 787		
2	2	2	8	8	6672 047		
2	2	2	8	8	671 071		
2	2	2	8	8	4866 107		
1	1	1	6	6	1818 808		
1	1	1	6	6	4876 671		
2	2	2	6	6	4864 919		

W I h M N Ob
Date—1906 August 30 31 and Sept 8

NO 660
LAT + 21
LONG 18
Class—IIa IIb IVb I
Date—1906 Sept 28 30 and Oct 1 4 9

W	I	h	M	N	Ob	—K V S	P S S
1	1	1	7	7	4803 028		
4	4	4	6	6	4864 919		
2	2	2	6	6	4876 671		
1	1	1	5	5	4866 107		
1	1	1	8	8	6001 166		
4	4	4	7	7	6009 839		
1	1	1	5	5	6016 840		
1	1	1	7	7	6048 761		
5	5	5	7	7	6046 682		
4	4	4	8	8	6088 174		
8	8	8	7	7	66 87 288		
2	2	2	6	6	6181 687		
1	1	1			188 270		
1	1	1			6188 690		
2	2	2	7	7	6148 101		
8	8	8	8	8	6147 659		
4	4	4	8	8	6180 868		
4	4	4	7	7	6219 87		
8	8	8	7	7	6226 686		
5	5	5	9	9	6188 474		
8	8	8	7	7	6460 672		
1	1	1	6	6	6477 901		
1	1	1	5	5	6482 078		
3	3	3	7	7	6480 867		
1	1	1	5	5	6480 906		
8	8	8	7	7	6627 869		
5	5	5	8	8	6671 071		
5	5	5	8	8	6672 047		
2	2	2	6	6	6708 797		
2	2	2	7	7	6707 204		
2	2	2	9	9	67 7 878		
2	2	2	8	8	6781 487		
5	5	5	9	9	6 37 288		
4	4	4	8	8	6748 645		
1	1	1	5	5	6866 076		
1	1	1	5	5	6807 786		

W I h M N Ob
Date—1906 Sept 28 30 and Oct 1 4 9

NO 662
LAT + 11
LONG 78
Class—I IIIb IVb IIIa
Date—1906 October 2

W	I	h	M	N	Ob	—K V S	P S S
1	1	1	8	8	5148 901		
1	1	1	6	6	5186 0		
1	1	1	6	6	5184 687		
1	1	1	5	5	6087 239		
1	1	1	5	5	6086 174		
1	1	1	6	6	6046 682		
1	1	1	5	5	6008 829		
2	2	2	6	6	67 204		
2	2	2	6	6	6708 797		
2	2	2	6	6	6672 047		
2	2	2	7	7	6671 071		
2	2	2	8	8	6627 869		
1	1	1	6	6	6480 906		
2	2	2	7	7	6480 867		
2	2	2	7	7	6160 672		
2	2	2	8	8	6426 474		
1	1	1	5	5	6226 486		
2	2	2	7	7	6288 742		
2	2	2	8	8	6219 876		
2	2	2	0	0	6160 868		
4	4	4	6	6	6147 66		
1	1	1	8	8	6148 801		
2	2	2	6	6	6087 289		
2	2	2	6	6	6086 174		
1	1	1	5	5	6058 066		
2	2	2	6	6	6046 682		
2	2	2	5	5	6048 61		
2	2	2	6	6	6009 829		
2	2	2	6	6	4866 107		
1	1	1	6	6	1818 808		
1	1	1	6	6	4876 671		
2	2	2	6	6	4864 919		

W I h M N Ob
Date—1906 October 2

W l gth	M W d n g	N mb Ob v t n	f
5147 052	7	1	
5150 868	7	1	
5219 875	7	1	
5420 474	9	1	
5627 859	8	1	
56 1 071	9	1	
5872 047	8	1	
5708 79	7	1	
707 204	7	1	
727 878	9	1	
781 487	9	1	
5737 288	8	1	
5748 045	9	1	

Ob -K V S

No 665

LAT + 7

LONG 44

CLASS—I IVd IIIa

Date—1905 October 2—4

W l gth	M W d g	N mb Ob t n	f
4864 919	9		
4905 10	5	1	
5009 829	5	1	
013 479	7	1	
016 340	6	2	
5043 761	5	2	
5015 582	6	3	
50 3 058	5	1	
5068 174	6	2	
087 239	5	1	
5134 007	7	2	
5186 270	7	2	
5138 600		1	
5148 901	8	2	
5147 652	8	3	
51 0 303	7	3	
5156 828	5	1	
5219 875	7	2	
5426 474	8	3	
480 572	6	2	
5482 078	6	1	
5180 86	7	1	
5627 859	9	1	
5871 071	8	8	
5872 047	8	3	
5889 694	5	1	
5708 797	6	4	
5707 204	7	2	
5727 873	9	2	
5781 487	9	2	
5737 288	8	3	
5748 045	9	2	

Ob -K V S d S S

No 673

LAT + 12

LONG 237

CLASS—IIa IVb IVa

Date—1905 October 16 18

W l gth	M W l g	N ml Ob t n	f
1868 888	7	1	
4801 913	9	2	
4878 871	7	1	
4886 264	7	1	
5001 165	8	2	
008 829	7	1	
5018 479	7	1	
5016 340	7	1	
5028 052	8	2	
5045 582	7	1	
5000 174	10	2	
5087 239	7	1	
5117 652	8	2	
51 0 368	8	2	
5219 875	7	1	
2 69	7	1	
5300 120	9	1	
5394 913	8	1	
5420 10	8	1	
5426 474	9	2	
5480 572	8	2	
5627 859	7	1	
5071 071	8	2	
5872 047	8	2	
5703 797	7	1	
5707 204	7	1	
5737 288	9	2	
5748 045	9	1	

Ob -S S

No 674 A (main spot)

LAT + 12

LONG 165

CLASS—V IVe IVc

Date—1905 October 18—24

W l gth	M W d g	N mb Ob r v t n	f
4882 039	5	1	
4862 88	8	2	
4804 919	8	5	
4875 871	7	5	
4885 107	6	3	
5001 165	8	2	
5009 829	7	5	
5018 479	7	4	
5016 340	7	4	

No 674 B
 Lat + 16
 Long 164
 CLASS—V IVa IVc
 Date—1905 October 24

W	I	gth	M	W d	g	Ob	Numb
1	6	24	1	6	6	4	6028 06
1	6	24	1	6	6	2	6048 761
1	6	24	1	6	7	6	604 88
1	6	24	1	6	9	6	606 174
1	6	24	1	6	6	6	6087 288
1	6	24	1	6	7	6	6124 60
1	6	24	1	6	8	6	6186 0
1	6	24	1	6	6	6	6188 680
1	6	24	1	6	6	6	6140 68
1	6	24	1	6	7	6	6148 901
1	6	24	1	6	8	6	6147 662
1	6	24	1	6	8	6	6149 018
1	6	24	1	6	8	6	6160 863
1	6	24	1	6	7	6	6160 826
1	6	24	1	6	6	6	6166 828
1	6	24	1	6	7	6	6189 876
1	6	24	1	6	7	6	6226 896
1	6	24	1	6	7	6	6296 966
1	6	24	1	6	8	6	6300 678
1	6	24	1	6	8	6	6300 928
1	6	24	1	6	10	6	64 0 474
1	6	24	1	6	6	6	6460 672
1	6	24	1	6	6	6	6477 901
1	6	24	1	6	8	6	6482 078
1	6	24	1	6	8	6	6480 867
1	6	24	1	6	6	6	6480 906
1	6	24	1	6	7	6	6587 928
1	6	24	1	6	7	6	6588 025
1	6	24	1	6	7	6	6627 860
1	6	24	1	6	8	6	6671 071
1	6	24	1	6	8	6	6672 047
1	6	24	1	6	8	6	6708 787
1	6	24	1	6	8	6	6 07 04
1	6	24	1	6	6	6	6710 671
1	6	24	1	6	8	6	6781 437
1	6	24	1	6	8	6	6 8 88
1	6	24	1	6	9	6	6 48 146
1	6	24	1	6	8	6	6866 6 6
1	6	24	1	6	6	6	6867 86

No 676
 Lat + 6
 Long 69
 CLASS—IVa IVb
 Date—1905 October 22—November 1

W	I	gth	M	W d	g	Ob	Numb
1	6	22	1	6	6	6	6186 270
1	6	22	1	6	6	6	6148 901
1	6	22	1	6	6	6	6147 66
1	6	22	1	6	7	6	6160 813
1	6	22	1	6	7	6	6 18 876
1	6	22	1	6	8	6	6426 474
1	6	22	1	6	8	6	6627 869
1	6	22	1	6	9	6	671 071
1	6	22	1	6	8	6	672 047
1	6	22	1	6	8	6	6727 878
1	6	22	1	6	8	6	6781 487
1	6	22	1	6	8	6	6787 288
1	6	22	1	6	8	6	6748 646
1	6	22	1	6	6	6	6866 676
1	6	22	1	6	6	6	6867 786

W l gth	M W d g	N b f O t
5148 901	7	
5147 654	8	11
5150 368	7	11
150 828	5	
5170 4	6	1
219 8 5	8	11
22 89	7	6
5238 42	6	8
239 187	6	3
5260 61	7	1
300 578	8	8
5300 929	7	3
5388 17	8	1
54 0 10	8	1
5426 474	9	11
441 40	6	1
54 0 572	7	10
5477 001	6	2
5482 078	6	
5490 367	7	7
5490 905	6	5
5493 709		2
5597 028	6	1
5627 850	8	10
671 071	9	11
5672 017	8	11
5708 797	7	8
5707 204	7	10
5710 671	6	8
5727 878	8	8
5731 437	8	8
5737 288	9	11
5743 64	8	11
806 675	6	7
5807 785	6	2
5978 768	6	2
6030 953	5	
Ob	-K V S	d s s

No 679 A

LAT + 12

LONG 330

CLASS—I IIIb IIc IIa IVb

Date—1905 November 3—9

W l gth	M W d g	N mb f O b t
4862 0 9	6	1
4864 919	8	5
4875 871	6	2
4865 107	6	2
5009 829	7	8
5018 470	6	1
5018 840	9	1
5048 761	7	1
5045 582	7	3

W l th	M W d	N mb f O b t
5066 174	8	5
5087 289	6	1
5184 897	7	1
5188 270	8	8
5188 890	6	1
5148 901	7	1
5147 6 2	8	5
5150 868	7	4
5 19 875	8	2
52 5 695	6	1
5426 474	9	5
5480 572	8	2
5482 078	6	1
5490 36	6	2
56 7 859	8	4
5671 071	8	5
5672 04	8	5
5708 707	6	2
5707 04	7	1
5716 671	6	1
5727 873	9	1
5731 437	8	1
5737 288	9	5
5743 645	8	5
Ob	-K V S	d s s

No 690

LAT + 7

LONG 204

CLASS—IVb IIIa IIa

Date—1905 November 11 16 17

W l gth	M W d g	N mb f O b t
4864 919	7	2
4865 107	5	1
5009 829	6	8
5016 840	6	
5028 052	7	1
5043 761	7	1
5045 582	6	2
5066 174	7	3
5087 289	5	1
5184 897	6	
5 38 270		2
5188 890	5	1
5148 901	5	3
5147 652	7	3
5150 368	7	3
5158 828	6	1
5 19 875	7	3
5225 695	8	1
54 6 474	J	3
5480 572	7	1
5627 869	8	3
5671 071	9	3

W l th	M W l g	N mb f
5672 047	8	3
5708 797	6	1
5716 671	6	1
5727 873	9	2
5731 487	8	2
5737 288	9	3
5743 645	8	3
5866 876	6	1
5867 785	6	1

Ob -KVS dSS

No 696

LAT - 18

LONG 158

CLASS-IVc I IVa

Date-1905 November 18

W l gth	M W d g	N mb f
5219 876	8	1
5428 474	9	1
5460 572	7	1
5627 859	9	1
5671 071	9	1
5672 047	8	1
5708 797	6	1
5707 204	6	1
5727 873	9	1
5731 487	9	1
5737 288	9	1
5743 645	8	1

Ob -KVS

No 702

LAT + 5

LONG 60

CLASS-IVb V

Date-1905 November 29

W l th	M W l g	N mb f
4868 888	9	1
4864 919	8	1
48 5 671	8	1
5001 185	7	1
5009 8 9	7	1
5028 053	8	1
5045 582	7	1
5066 174	9	1
5147 652	9	1
5219 876	8	1
54 6 474	7	1
56 7 359	7	1
5671 071	8	1
5672 047	8	1
5708 797	8	1
5707 204	8	1
5737 288	8	1

Ob -SS

No 708 A

LAT - 16

LONG 347

CLASS-IIIa

Date-1 05 November 28 30 and December 1

W l gth	M W l g	N mb f
4862 029	6	1
4862 783	6	1
4868 888	7	1
4864 919	8	2
4868 451	6	1
4875 671	6	1
4966 107	6	2
4975 580	5	1
5001 185	6	1
5009 829	6	3
5013 479	7	2
5010 220	6	1
5016 340	7	1
5028 052	9	1
5048 781	7	1
5045 582	7	3
5066 174	8	2
5134 697	6	1
5136 270	8	2
5138 690	8	2
5140 553	6	1
5143 901	8	2
5147 65	7	3
5150 368	7	3
5150 823	6	1
5219 876	7	9
5 25 695	8	1
5238 712	5	1
5900 921	6	1
5426 474	9	3
5460 57	8	3
5490 387	7	2
5490 905	6	1
5627 859	8	3
5671 071	9	3
5672 047	8	3
5 08 797	8	1
5707 204	8	2
572 873	8	3
5731 487	8	3
5737 288	9	3
5743 645	8	3
5866 8 5	7	1

Ob -KVS ndSS

No 708 B

(Middle one)

LAT — 15

LONG 335

CLASS—IIIa

Date—1905 December 4

W l gth	M W d g	N mb t f
4882 029	5	1
4804 919	5	1
4985 107	6	1
5009 829	7	1
5016 840		1
5049 781	0	1
5045 582	7	1
5086 174	8	1
5087 239	8	1
5134 840	8	1
5136 270	7	1
143 901	8	1
5147 052	7	1
5150 368	7	1
5156 8 8	5	1
5213 875	8	1
5426 474	0	1
627 859	9	1
5671 071	9	1
5672 047	8	1
5708 797	7	1
5707 204	6	1
5 16 071	6	1
57 7 873	9	1
5781 487	8	1
7 7 288	8	1
5743 64	8	1
5866 875	5	1

Ob v —KVS

No 708 C

(Easternmost big spot)

LAT — 13

LONG 322

CLASS—IIIa

Date—1905 December 5

W l gth	M n W d g	N mb t f
4864 919	8	1
5001 105	7	1
5009 829	7	1
5018 479	7	1
5016 840	8	1
5028 052	8	1

W l gth	M W d	N mb t f
5066 174	9	1
5147 052	8	1
150 868	8	1
219 875	8	1
695	6	1
5426 474	8	1
627 859	7	1
5671 071	8	1
5672 047	8	1
5708 797	7	1
5707 204	7	1
797 98	8	1

Ob —SS

No 714 B

LAT — 25

LONG 214

CLASS—IIc IIb IVa IVb IIIb

Date—190 December 7 8

W l gth	M W d g	N mb t f
4868 838	8	1
4864 919	7	1
4875 871	7	1
4965 107	(1
5001 165	7	1
5001 829	7	2
5016 810	9	1
5023 052	7	1
5045 582		1
5066 174	9	1
134 097	7	1
5136 70	6	1
5138 690	6	1
143 901	6	1
514 852	8	2
5148 018		1
5150 868	8	2
5 19 875	7	2
5225 898	3	1
5426 474	9	2
5460 572	8	1
5627 859	8	
5671 071	9	2
56 2 047	8	2
5708 797	7	1
5707 204	7	1
5727 878	9	1
5781 487	9	1
5737 288	8	2
5748 645	8	2
5866 875	7	1

Ob —KVS dSS

No 715

LAT - 9

LONG 170

CLASS--IVa IVe IVb I

Date--1905 December 10 11

W l th	M n W d n g	N mb t
4864 019	9	1
48 5 071	7	1
4885 284	7	1
5001 165	7	1
5009 829	7	1
5013 479	6	1
5016 340	8	1
5029 052	8	1
5045 582	8	1
5066 174	9	1
5147 652	9	1
5150 868	8	1
5219 875	7	2
5225 89	9	1
5420 474	8	2
5027 859	8	2
5671 071	9	1
5672 047	8	1
5708 797	8	1
5707 204	8	1
5727 873	8	1
5731 437	9	1
5737 298	8	2
5743 645	8	2

Ob -KVS ndSS

No 719 A

LAT + 1

LONG 100

CLASS IIa

Date- 1905 December 14--28

W l gth	M n W l g	N mb t
4862 0 9	6	1
486 788	7	1
4868 883	7	1
4864 919	9	4
4875 071	7	8
4885 284	7	2
4888 85)	7	1
498 107	6	
5001 165	8	8
5009 829	7	7
5013 479	7	4
5016 340	7	6
5023 052	9	4
5043 761	7	8
5045 582	7	8

W l th	M W d	N mb t
5006 078	6	1
5081 174	8	9
5087 89		2
5124 697		
5130 70	8	1
5138 090	7	3
5140 5 8	6	3
5148 901	7	4
5147 652	8	8
5119 013	6	2
5150 868	8	9
5158 828	1	4
5180 119	6	1
5180 554	8	8
5104 007	8	1
5210 875	7	9
52 695	8	6
5288 742	8	1
5289 137	0	1
5282 570	9	1
5800 929	7	1
5428 174	9	9
5460 572	8	9
5477 001	7	1
5482 078	7	2
5490 36	6	4
5490 90	6	1
5493 709	6	1
5627 859	8	8
5671 071	9	9
5672 047	8	9
5708 797	7	8
5707 204	7	6
5716 071	7	4
5727 878	8	9
5731 437	8	1
5737 298	1	9
5740 10	1	1
5743 64	8	9
5866 (75	7	3
887 78	5	1
6089 9 3	5	1

Ob -KVS dSS

No 724 (a) A

LAT + 16

LONG 53

CLASS--IIc IIb

Date--1905 December 24 25

W l gth	M n W d g	N mb t
4862 788	7	1
4864 919	7	1
4875 071	7	1
4885 284	0	1
4915 107	6	2

W l gth	M W d g	N mb f Ob t
5001 185	7	1
5009 829	8	1
5016 840	8	2
5048 761	7	1
5015 582	8	1
5086 174	8	2
5188 690	7	1
51 8 901	7	1
5147 652	8	2
5149 013	6	1
5150 868	8	1
5166 828	6	1
5164 007	7	1
5219 975	8	2
5225 695	7	2
51 6 174	8	
5460 572	7	1
5482 078	7	1
5627 8 9	8	2
5671 071	9	
5672 017	8	
5707 201	8	
57 7 873	8	2
5731 137	8	2
5737 288	9	2
5743 645	8	2
866 675	7	1

Ob -KVS

No 724 (a) B

LAT + 18

LONG 47

CLASS—IIc IIb

Date—1905 December 25 26

W l gth	M W d g	N mb f Ob t
1861 919	7	1
1965 107	7	1
5009 829	8	2
5013 761	7	1
5015 582	8	2
5008 174	7	1
131 897	7	2
188 2 0	7	1
148 901	7	2
514 8 2	6	2
5160 868	7	2
5213 875	8	1
5426 474	8	2
562 869	8	2
671 071	9	2
672 047	8	2
5708 797	7	1
72 873	8	2
5731 487	8	2
5737 288	8	
5743 645	8	2

Ob -KVS

No 730A

LAT - 9

LONG 283

CLASS—IIa IIc IIIa IVb IVa

Date—1905 Dec 27 to 1906 Jan 4

W l gth	M W d g	N mb f Ob t
4802 029	8	1
4802 788	7	1
4803 888	7	1
4864 919	9	8
4869 652	7	1
875 671	7	4
4885 261	7	2
4915 414	8	8
4928 511	7	1
496 107	6	1
001 165	7	5
5009 829	7	5
018 479	8	1
5016 340	7	1
50 3 052	8	7
5048 761	6	2
504 58	8	7
066 174	9	8
5180 548	7	1
5134 697	7	4
5186 270	8	7
188 690	7	1
113 301	7	1
5117 652	9	8
5180 808	8	8
5180 413		1
5219 875	7	6
5 25 695	8	7
5800 9 9	7	2
5120 171	10	8
540 72	8	5
5430 867	8	
5180 905	7	5
5627 859	7	0
5671 071	9	8
5672 047	9	8
5708 797	8	3
5707 204	8	3
5727 873	8	6
5731 487	8	6
737 288	9	8
5743 645	9	8
5886 675	7	2

Ob -KVS dss

NOTES

1905

July 1 574 80 581 O d tl pt (SS)
2 574 O t gly d l t d k O lghtly l pl dt d wd pt l b d D d k
btw pt dlmb (SS)
3 584 1 85 C l th pt (KVS)
4 588 C lghtly d pl dt d nd lghtly b t l t pt (SS)
6 590 O l hly d pl li d l lghtly d m pl (SS)
7 589 O l hly l 90 O t ngly d l lghtly d pl dt d l t (KVS)
8 C lghtly d lwybt 589 d 590 O m t fth l btw th pt Cw lghtly l pl d
t l (SS)
12 594 C d dd k O lghtly d pl lt d l gth l f m ll pt t fl g l t O d
tl t l b fth l g pt 589 l 590 O lghtly d nd d l O hly d l l d b t l w y t
t fg p (SS)
13 594 O l ngly d d l l tly d l l d l pl th b b l t l t m ll m l
(KVS)
14 594 O lghtly l tl bg pt dth t f th g p lghtly wd l d p dl h l l b t
th tw pl 89 l 90 O lghtly d t l pl d k db ght C d pl d l l tly t d
t fg p (SS)
16 594 D d kt t fm pt O d l th pt dt t fl b ght b l g b t n t th b l g
589 d 590 D l l tw pl th pt O pp l l f d l th g p l l pp l t l l
th mddl f t l g l 6420 169 ff l tl l t m f t l l t 6122 484 pl l l f d
w g d l l D D n th pt p t m (GN)
20 604 O lghtly d t mb fg l (KVS)
21 601 O d l l l lghtly t l tw t fg p d lghtly l t l l t tl g l 604 O t gly
d th m ll l t 594 O d th l g mb d t l gl t C b l l l tly t l l t
pt t d 597 O t ly d t p t t t f l t dd pl l t l t t l n t t th tl
w t D pl m t l w 15 A t s l 48 m b t t l d pl th d l l p d by 8 l 50 m (SS)
24 604 O dt t fg p (SS)
31 612 O lghtly d pl dt d th l t C dt l t tl pt d l b tw pt d l l (SS)
Aug t 3 612 O l mddl fth pt l l hly d pl d t l f pt (KVS)
4 612 O l hly d b t n th tw mb (KVS)
5 612 l h t h l g f O m d l l f pt (KVS)
6 614 O lghtly d pl dt l w t f pt (SS)
7 618 O lghtly d pl d b t l w y b tw th t pt f th gr l (SS)
8 618 O lghtly l t d w t d f th l t 620 O t gly d t t l d f th pt
(KVS)
9 620 O d g l 620 O lghtly d dd pl l t d tl l t 618 O lghtly d l l b t l
w y l d t l p t th pt (SS)
11 618 O d th pt d b tw n tl pt d l b D k O d pl l t l t f w t l g f p t t
l t nd w y b t t d th l mb m t g d lly g t d A l mb 620 O lghtly d
th l mb f t l pt l d pl d lghtly t dt tl w t f t 620 l 623 b d t g t l d
mp d f wd d l (SS)
20 628 d l O th k d t l l nd lghtly l l l dt l pt O f tly l tl l l N
l k D (GN)
21 628 A lgt l f O w t l f t l lgt pl m t b th w y b t m d l l f l t 628 D O
lghtly d b t l d f p t (KVS)
25 628 B (t p t) O t gly d d l k O lghtly d l l dt d (KVS)
27 638 O l n t f b (KVS)
31 637 b l l l f O w t l f mb (KVS)
S pt mb 28 660 O d th t n pt 657 O l hly l pl dt d b tw l t dlmb (SS)
30 660 O l l tly l n b th pt fg p (KVS)
O t b 2 660 B O b g tly d 680 A O lghtly d slght l f O tl m ll p t t tl w t f 688
(KVS)
3 660 O lghtly d pl l t d wd btw n th pt 665 O d d b glt nd l k O lghtly
l pl l t l t t f w t p t (SS)
9 672 671 O lghtly d l l dt d (SS)
11 670 O d l b n t lghtly t d d D d k n th bg pt (SS)
19 670 O d b th t nd w t d f th pt l t d y t g B th b ght d d k O
d pl dt l t b t pt dlmb D pl m t l b t 08 A D k O d pl dt d t m pl
b t 05 A D lghtly d k b tw n pt dlmb (SS)
16 678 O lghtly d t d fg p dd pl d lghtly b th w y t t f b g p t 674 O
d t gly l f th mb (SS)
17 674 C b l l tly d t d f th mb D k O b k nd d pl d lghtly t l t n l
pl O d t mb (KVS)
18 678 O q t 674 C t gly d t l pl n th g p St g t n m ll p t t n th fg p
D d k t th m pl (S)

1906

Oct 20 64 C y t ly d w t d f g p n p t th t pl D d k t th th w t f th
 gr p O l f d pl d t l t D pl m t l A n F g d lly b m r l l d t ft
 Sl 20 Slght h pl m t t d t th th pl b tw n p t ()
 21 674 O l hly d pl d t l pl t l l f f th g p N th t f th p F d pl d
 15 A t l t N t l m p t t l lghtly d (SS)
 22 674 O lghtly d l pl C d pl d 08 A b th w y f th p t d t th t d w t
 f th O w y lghtly d 676 O y b g tly d w t f l t B ght O d pl d 05 A
 b t l y N d l D (KVS)
 23 674 O d th l g b d t ly w d g th t f th g l D d k t th l t t
 pl W t d f b p y l t b d 676 O d b tw th tw mb s d F l pl d 15 A t
 l t t w t f l t 5343622 p t lly f l b th p t (Sb)
 24 676 O d j t t d th mb s d l l t l t l p mb 674 O d mb f l g p t
 (KVS)
 25 674 O l t l t 67 O f tly d t w t f g p (SS)
 26 674 O t gly d d d l C lghtly d l d t d w t p D d k t p b tw th p t
 b t t t l p l w O v l 676 q t (KVS)
 28 O S l y d t l b d l n t d f l mb 5011 119 5825 788 5826 981 d 5842 890
 p tly f d 67 J O l hly d t p t (SS)
 Nov mb 1 676 O lghtly l l d t d t w t f p t D y d k p t (SS)
 6 679 O lghtly d l l l d t b f l t (KVS)
 9 683 O t ly d t f k l (SS)
 10 690 O b g tly d n d l l C l l tly d l d (KVS)
 11 690 O l tly l t l t 694 O lghtly d (KVS)
 16 696 O t nly l t w t f l t 690 l t (KVS)
 28 708 O lghtly d l l (KVS)
 30 708 O lghtly l l l (KVS)
 D mb 1 708 O t ly l d mb f th l b g l t f m w t (SS)
 4 713 O lghtly l (KVS)
 14 710 O lghtly l t w pl b tw n t l l g l m l l p t l D d k m 714 O d
 l d l O lghtly d l d t d l pl (KVS)
 15 714 O lghtly d d d l d b th w y p t (SS)
 16 714 O lghtly l l l b tw n p t (KVS)
 18 710 O lghtly d t l w t f m l l t (SS)
 22 726 C d m l l l f g l l d l O l pl d t d (F d pl d l A) (I VS)
 23 22 C d l l l p t 726 C d l lghtly b t b l w th l g p t (KVS)
 24 724 A O lghtly d t l f p t 726 d k O d pl d b th w y m t F l A (KVS)
 25 722 O lghtly l D d l 724 O lghtly d l b tw t h f p t 727 O b g tly
 d t l t (KVS)
 28 724 A 727 730 O d O lghtly d pl d t d 727 t 9 l 20 m d pl l b th w y t th m p n t
 t 10 l 20 m (SS)
 29 727 730 O l (SS)
 30 730 O l lghtly t l l d g p t d m l l d t b t th tw p t D l O lghtly d pl d b th
 w y t l t t l t (SS)

186/ June 1906

O MICHELLE SMITH
Director Kankakee and Mendota