

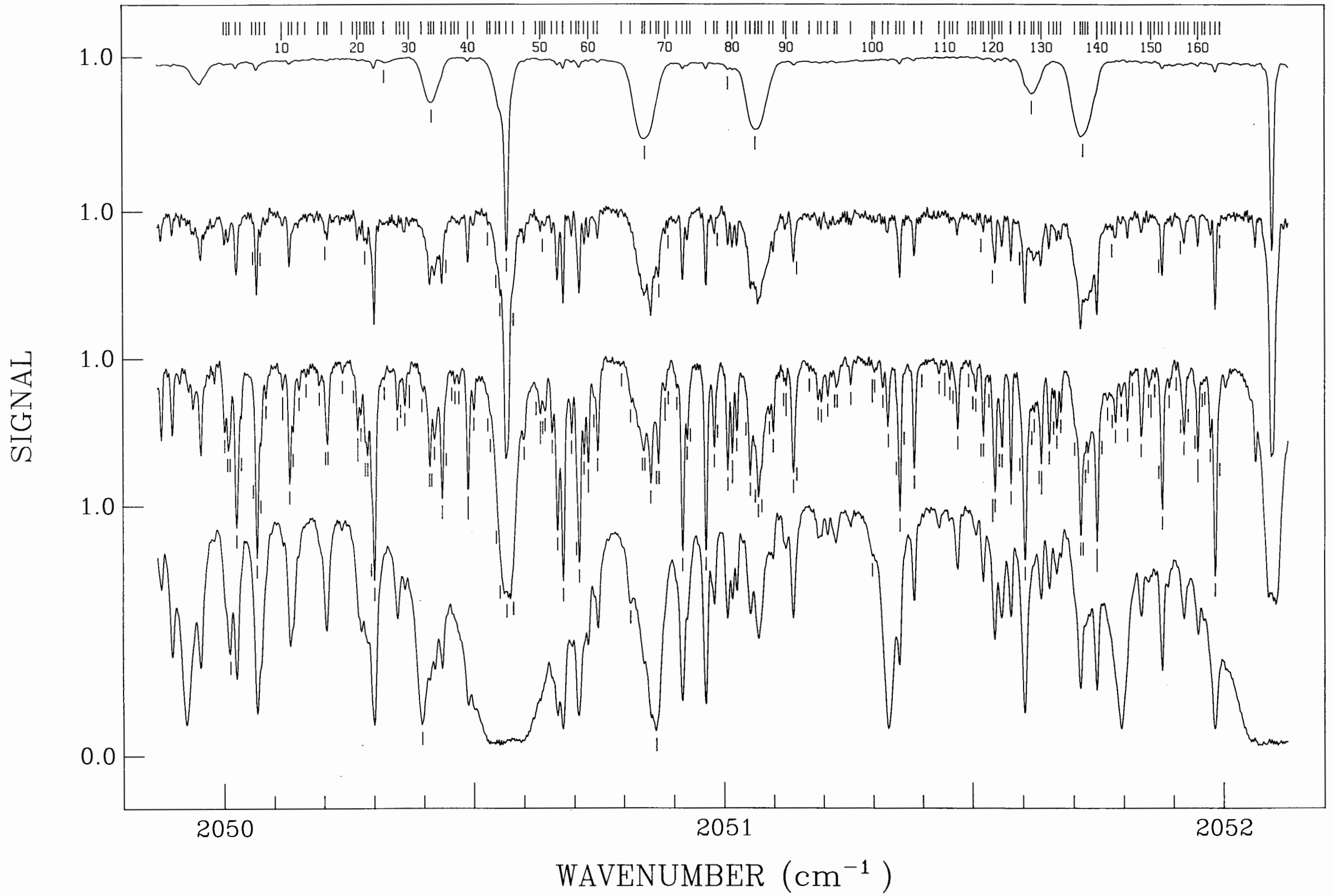
4 JUNE 1990

32.5KM 68.50°

37.08KM 90.64°

37.05KM 92.27°

36.76KM 94.49°



2050-2052 cm<sup>-1</sup>

Seq. No.	$\nu$ (observed) (cm <sup>-1</sup> )	Identification	Seq. No.	$\nu$ (observed) (cm <sup>-1</sup> )	Identification
1	2050.0017	<sup>16</sup> O <sub>3</sub>	30	2050.3714	CO <sub>2</sub>
2	2050.0093	<sup>16</sup> O <sub>3</sub>	31	2050.3966	OCS
3	2050.0113	CO <sub>2</sub>	32	2050.4124	<sup>16</sup> O <sub>3</sub>
4	2050.0258	<sup>16</sup> O <sub>3</sub>	33	2050.4154	solar CO
5	2050.0350	<sup>16</sup> O <sub>3</sub>	34	2050.4218	CO <sub>2</sub>
6	2050.0589	<sup>16</sup> O <sub>3</sub>	35	2050.4371	<sup>16</sup> O <sub>3</sub>
7	2050.0664	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	36	2050.4452	<sup>16</sup> O <sub>3</sub>
8	2050.0739	CO <sub>2</sub>	37	2050.4565	?
9	2050.0844	<sup>16</sup> O <sub>3</sub> , CO	38	2050.4630	<sup>16</sup> O <sub>3</sub>
10	2050.1174	<sup>16</sup> O <sub>3</sub>	39	2050.4709	<sup>16</sup> O <sub>3</sub>
11	2050.1314	<sup>16</sup> O <sub>3</sub>	40	2050.4888	<sup>16</sup> O <sub>3</sub>
12	2050.1382	CO <sub>2</sub>	41	2050.5002	CO <sub>2</sub>
13	2050.1504	<sup>16</sup> O <sub>3</sub> + <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?	42	2050.5280	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
14	2050.1645	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?	43	2050.5333	<sup>16</sup> O <sub>3</sub> ?
15	2050.1912	<sup>16</sup> O <sub>3</sub> + <sup>16</sup> O <sup>18</sup> O <sup>16</sup> O?	44	2050.5447	<sup>16</sup> O <sub>3</sub> ?
16	2050.2041	CO <sub>2</sub>	45	2050.5521	<sup>16</sup> O <sub>3</sub>
17	2050.2079	<sup>16</sup> O <sub>3</sub>	46	2050.5655	CO <sub>2</sub> + solar CO
18	2050.2374	<sup>16</sup> O <sub>3</sub>	47	2050.5790	CO <sub>2</sub> + <sup>16</sup> O <sub>3</sub>
19	2050.2597	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O? + <sup>16</sup> O <sub>3</sub> ?	48	2050.6002	CO <sub>2</sub> , <sup>16</sup> O <sub>3</sub>
20	2050.2682	<sup>16</sup> O <sub>3</sub>	49	2050.6235	<sup>16</sup> O <sub>3</sub> ?
21	2050.2747	CO <sub>2</sub>	50	2050.6322	<sup>16</sup> O <sub>3</sub>
22	2050.2837	<sup>16</sup> O <sub>3</sub>	51	2050.6375	<sup>16</sup> O <sub>3</sub> ?
23	2050.2878	<sup>16</sup> O <sub>3</sub>	52	2050.6418	<sup>16</sup> O <sub>3</sub>
24	2050.2951	<sup>16</sup> O <sub>3</sub>	53	2050.6559	<sup>16</sup> O <sub>3</sub> , <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
25	2050.3015	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	54	2050.6666	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>
26	2050.3210	? + solar CO?	55	2050.6780	<sup>16</sup> O <sub>3</sub>
27	2050.3470	CO <sub>2</sub>	56	2050.6945	<sup>16</sup> O <sub>3</sub>
28	2050.3539	<sup>16</sup> O <sub>3</sub>	57	2050.7044	<sup>16</sup> O <sub>3</sub>
29	2050.3623	<sup>16</sup> O <sub>3</sub>	58	2050.7099	<sup>16</sup> O <sub>3</sub>

2050-2052 cm<sup>-1</sup> (continued)

Seq. No.	$\nu$ (observed) (cm <sup>-1</sup> )	Identification	Seq. No.	$\nu$ (observed) (cm <sup>-1</sup> )	Identification
59	2050.7200	<sup>16</sup> O <sub>3</sub>	88	2051.0978	<sup>16</sup> O <sub>3</sub>
60	2050.7284	<sup>16</sup> O <sub>3</sub>	89	2051.1194	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
61	2050.7399	<sup>16</sup> O <sub>3</sub>	90	2051.1237	CO <sub>2</sub>
62	2050.7475	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	91	2051.1388	<sup>16</sup> O <sub>3</sub>
63	2050.7955	<sup>16</sup> O <sub>3</sub> ?	92	2051.1456	<sup>16</sup> O <sub>3</sub>
64	2050.8134	CO <sub>2</sub>	93	2051.1708	<sup>16</sup> O <sub>3</sub> ?
65	2050.8395	CO <sub>2</sub>	94	2051.1884	<sup>16</sup> O <sub>3</sub>
66	2050.8404	solar CO	95	2051.1950	<sup>16</sup> O <sub>3</sub>
67	2050.8543	CO	96	2051.2081	<sup>16</sup> O <sub>3</sub>
68	2050.8665	OCS	97	2051.2220	CO <sub>2</sub>
69	2050.8693	<sup>16</sup> O <sub>3</sub>	98	2051.2272	<sup>16</sup> O <sub>3</sub>
70	2050.8822	<sup>16</sup> O <sub>3</sub>	99	2051.2542	<sup>16</sup> O <sub>3</sub>
71	2050.8884	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?	100	2051.2982	<sup>16</sup> O <sub>3</sub> ?
72	2050.9055	<sup>16</sup> O <sup>18</sup> O <sup>16</sup> O, <sup>16</sup> O <sub>3</sub> ?	101	2051.3018	CO <sub>2</sub> ?
73	2050.9169	<sup>16</sup> O <sub>3</sub>	102	2051.3188	<sup>16</sup> O <sub>3</sub>
74	2050.9259	<sup>16</sup> O <sub>3</sub>	103	2051.3297	<sup>16</sup> O <sub>3</sub> , OCS + CO <sub>2</sub>
75	2050.9325	CO <sub>2</sub>	104	2051.3455	<sup>16</sup> O <sub>3</sub>
76	2050.9635	<sup>16</sup> O <sub>3</sub>	105	2051.3527	<sup>16</sup> O <sub>3</sub>
77	2050.9801	<sup>16</sup> O <sub>3</sub>	106	2051.3613	?
78	2050.9864	<sup>16</sup> O <sub>3</sub> ?	107	2051.3820	<sup>16</sup> O <sub>3</sub>
79	2051.0066	<sup>16</sup> O <sub>3</sub> + solar CO?	108	2051.3971	<sup>16</sup> O <sub>3</sub> ?
80	2051.0158	<sup>16</sup> O <sub>3</sub>	109	2051.4325	CO <sub>2</sub>
81	2051.0249	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	110	2051.4437	<sup>16</sup> O <sub>3</sub> ? + ?
82	2051.0432	?	111	2051.4537	<sup>16</sup> O <sub>3</sub> , <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
83	2051.0520	<sup>16</sup> O <sub>3</sub>	112	2051.4601	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
84	2051.0619	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?, solar CO	113	2051.4696	<sup>16</sup> O <sub>3</sub>
85	2051.0683	<sup>16</sup> O <sub>3</sub>	114	2051.4916	?
86	2051.0750	<sup>16</sup> O <sub>3</sub> + <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?	115	2051.5000	<sup>16</sup> O <sub>3</sub>
87	2051.0901	<sup>16</sup> O <sub>3</sub>	116	2051.5063	<sup>16</sup> O <sub>3</sub>

2050-2052 cm<sup>-1</sup> (continued)

Seq. No.	$\nu$ (observed) (cm <sup>-1</sup> )	Identification	Seq. No.	$\nu$ (observed) (cm <sup>-1</sup> )	Identification
117	2051.5172	<sup>16</sup> O <sub>3</sub>	146	2051.8073	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>
118	2051.5215	<sup>16</sup> O <sub>3</sub>	147	2051.8168	CO <sub>2</sub>
119	2051.5325	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	148	2051.8342	<sup>16</sup> O <sub>3</sub> + CO <sub>2</sub> + <sup>16</sup> O <sup>18</sup> O <sup>16</sup> O
120	2051.5398	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	149	2051.8491	CO <sub>2</sub>
121	2051.5446	<sup>16</sup> O <sub>3</sub>	150	2051.8540	<sup>16</sup> O <sub>3</sub>
122	2051.5531	CO <sub>2</sub> + <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?	151	2051.8615	CO <sub>2</sub>
123	2051.5586	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	152	2051.8698	<sup>16</sup> O <sub>3</sub>
124	2051.5761	<sup>16</sup> O <sub>3</sub>	153	2051.8768	<sup>16</sup> O <sub>3</sub>
125	2051.5938	<sup>16</sup> O <sub>3</sub> ?	154	2051.8907	CO <sub>2</sub> + <sup>16</sup> O <sub>3</sub>
126	2051.6038	<sup>16</sup> O <sub>3</sub>	155	2051.9049	?
127	2051.6175	solar CO	156	2051.9135	<sup>16</sup> O <sub>3</sub> + <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
128	2051.6221	?	157	2051.9206	<sup>16</sup> O <sub>3</sub> + CO <sub>2</sub>
129	2051.6318	<sup>16</sup> O <sup>18</sup> O <sup>16</sup> O?	158	2051.9288	<sup>16</sup> O <sub>3</sub>
130	2051.6359	<sup>16</sup> O <sub>3</sub>	159	2051.9421	<sup>16</sup> O <sub>3</sub>
131	2051.6517	<sup>16</sup> O <sub>3</sub> , CO <sub>2</sub>	160	2051.9483	<sup>16</sup> O <sub>3</sub>
132	2051.6605	<sup>16</sup> O <sub>3</sub>	161	2051.9571	<sup>16</sup> O <sup>16</sup> O <sup>18</sup> O
133	2051.6668	<sup>16</sup> O <sub>3</sub>	162	2051.9623	CO <sub>2</sub>
134	2051.6744	<sup>16</sup> O <sub>3</sub>	163	2051.9734	<sup>16</sup> O <sub>3</sub> + <sup>16</sup> O <sup>16</sup> O <sup>18</sup> O?
135	2051.7018	<sup>16</sup> O <sub>3</sub>	164	2051.9830	<sup>16</sup> O <sub>3</sub>
136	2051.7135	<sup>16</sup> O <sub>3</sub>	165	2051.9920	?
137	2051.7186	solar CO			
138	2051.7225	<sup>16</sup> O <sub>3</sub> ?			
139	2051.7284	CO <sub>2</sub>			
140	2051.7460	<sup>16</sup> O <sub>3</sub> + CO <sub>2</sub>			
141	2051.7556	CO <sub>2</sub>			
142	2051.7670	CO <sub>2</sub>			
143	2051.7761	CO <sub>2</sub>			
144	2051.7829	<sup>16</sup> O <sub>3</sub> + CO <sub>2</sub>			
145	2051.7946	OCS, <sup>16</sup> O <sup>18</sup> O <sup>16</sup> O			