

List of the observed wavelength of the Schumann-Runge absorption bands of $^{18}\text{O}_2$.

A: Wavelength region of 175.460nm - 179.784nm

Wavenumber	B(19)-X(0)
56992.94	
56991.86	
56990.64	
56989.42	R ₃ (1)
56988.24	
56987.65	
56987.38	R ₂ (1)
56986.51	
56986.13	
56985.35	
56984.75	
56982.85	
56981.19	
56981.04	
56980.09	
56979.59	
56979.00	R ₃ (3)
56977.91	R ₂ (3)
56977.10	R ₁ (1)
56976.93	
56975.74	P ₃ (3)
56975.09	
56974.54	P ₂ (3)
56973.26	
56972.72	
56971.64	
56970.34	
56969.78	
56968.64	R ₁ (3)
56964.55	P ₁ (3)
56963.88	
56962.41	R ₃ (5)
56961.69	R ₂ (5)
56960.12	
56959.82	
56959.05	
56957.50	
56956.67	
56955.98	P ₃ (5)
56954.94	P ₂ (5)
56954.43	
56953.33	
56951.96	
56951.25	R ₁ (5)

Wavenumber	B(19)-X(0)
56950.85	
56950.37	
56948.97	
56948.58	
56946.69	
56946.38	
56945.49	P ₁ (5)
56944.75	
56944.34	
56943.56	
56942.95	
56941.51	
56940.38	
56940.08	
56938.52	
56937.86	
56937.15	R ₃ (7)
56936.56	R ₂ (7)
56936.12	
56934.48	
56933.65	
56932.44	
56931.96	
56931.30	
56929.99	
56929.19	P ₃ (7)
56928.45	P ₂ (7)
56928.25	
56927.28	
56926.90	
56926.23	
56925.88	R ₁ (7)
56924.59	
56923.16	
56922.07	
56920.92	
56919.65	
56919.14	
56918.08	P ₁ (7)
56917.40	
56916.33	
56915.34	
56913.33	
56913.12	
56912.20	
56911.38	
56910.41	
56908.27	
56907.72	

Wavenumber	B(18)-X(0)	B(19)-X(0)
56907.25		
56905.43		
56903.73		R ₃ (9)
56903.33		R ₂ (9)
56901.40		
56900.13		
56899.15		
56897.77		
56897.03		
56896.85		
56895.76		
56894.76		
56893.75		P ₃ (9)
56892.96		P ₂ (9)
56892.75		R ₁ (9)
56890.82		
56890.33		
56889.83	R ₃ (1)	
56888.99	R ₂ (1)	
56887.82		
56886.09		
56885.35		
56884.70		
56883.66		
56882.39		P ₁ (9)
56882.01	R ₁ (1)	
56880.97	R ₃ (3)	
56880.49	R ₂ (3)	
56879.86		
56878.97		
56878.10		
56877.26	P ₃ (3)	
56876.21	P ₂ (3)	
56875.58		
56874.52		
56873.90	R ₁ (3)	
56872.59		
56871.84		
56871.37		
56870.17		
56869.56	P ₁ (3)	
56868.16		
56867.24		
56866.17		
56864.63	R ₃ (5)	
56864.29	R ₂ (5)	
56863.44		
56862.69		
56862.24		R ₃ (11)
56861.81		R ₂ (11)

Wavenumber	B(18)-X(0)	B(19)-X(0)
56860.45		
56859.67		
56857.84	P ₃ (5)	
56857.47	R ₁ (5)+P ₂ (5)	
56856.81		
56855.95		
56855.31		
56855.02		
56853.80		
56853.06		
56852.27		
56851.33		
56850.80	P ₁ (5)	
56850.16		P ₃ (11)
56849.62		P ₂ (11)
56849.06		R ₁ (11)
56848.00		
56847.02		
56846.47		
56845.98		
56845.44		
56844.43		
56843.73		
56842.29		
56840.82	R ₃ (7)	
56840.30	R ₂ (7)	
56839.11		P ₁ (11)
56837.96		
56837.11		
56836.37		
56836.15		
56833.11	R ₁ (7)	
56831.39	P ₃ (7)	
56831.08	P ₂ (7)	
56829.07		
56828.90		
56826.53		
56825.44		
56824.18	P ₁ (7)	
56823.94		
56822.23		
56821.76		
56820.14		
56818.71		
56817.52		
56817.14		
56812.52		R ₃ (13)
56812.04		
56811.68		R ₂ (13)

Wavenumber	B(17)-X(0)	B(18)-X(0)	B(19)-X(0)
56811.16			
56809.37		R ₃ (9)	
56808.38		R ₂ (9)	
56807.92			
56807.19			
56804.21			
56802.72			
56801.30			
56800.82		R ₁ (9)	
56799.83			
56799.19			R ₁ (13)
56798.48			P ₃ (13)
56797.85			P ₂ (13)
56797.37		P ₃ (9)	
56796.86		P ₂ (9)	
56795.90			
56794.20			
56792.15			
56790.97			
56789.61		P ₁ (9)	
56788.75			
56786.83			
56786.48			
56786.02			
56785.63			
56785.29			P ₁ (13)
56784.14			
56781.31			
56780.76			
56779.23			
56777.81			
56777.28			
56776.27			
56775.32			
56772.34			
56771.23			
56770.09		R ₃ (11)	
56768.62		R ₂ (11)	
56766.40			
56764.83			
56763.63			
56762.93	R ₂ (1)		
56761.76			
56760.62		R ₁ (11)	
56759.58			
56758.45	R ₁ (1)		
56758.03			
56756.93			
56755.58	R ₃ (3)	P ₃ (11)	
56754.85	R ₂ (3)	P ₂ (11)	

Wavenumber	B(17)-X(0)	B(18)-X(0)	B(19)-X(0)
56753.41			
56752.78			
56752.39			
56751.56			
56750.68	R ₁ (3)		
56750.13	P ₂ (3)		
56748.53			
56747.19		P ₁ (11)	
56745.78	P ₁ (3)		
56745.17			
56743.19			
56742.49			
56741.95			
56741.29			
56739.93	R(5)		
56739.76			
56738.52			P ₃ (15)
56737.55			P ₂ (15)
56735.79			
56735.17	R ₁ (5)		
56734.04			
56733.35			
56732.34	P ₃ (5)		
56732.10	P ₂ (5)		
56730.93			
56730.48			
56727.69	P ₁ (5)		
56725.15			P ₁ (15)
56723.41			
56722.93		R ₃ (13)	
56720.89		R ₂ (13)	
56718.50			
56717.28	R ₃ (7)		
56716.97	R ₂ (7)		
56715.41			
56713.97			
56712.27		R ₁ (13)	
56712.11	R ₁ (7)		
56711.11			
56710.68			
56709.83			
56708.73			
56708.46			
56706.65	P ₃ (7)		
56706.46	P ₂ (7)	P ₃ (13)	
56704.81		P ₂ (13)	
56703.63			
56701.97	P ₁ (7)		
56700.56			
56699.92			

Wavenumber	B(17)-X(0)	B(18)-X(0)	B(19)-X(0)
56696.74		P ₁ (13)	
56694.47			
56693.18			
56692.20			
56691.31			
56689.00			
56688.18			
56687.30	R ₃ (9)		
56686.66	R ₂ (9)		
56684.32			
56683.26			
56681.42	R ₁ (9)		
56679.34			
56677.24			
56676.94			
56675.15			
56673.88	P ₃ (9)		
56673.47	P ₂ (9)		
56673.01			
56671.42			
56670.31			
56669.30			
56668.65	P ₁ (9)		
56667.82			
56666.94		R ₃ (15)	
56664.85		R ₂ (15)	
56661.88			
56660.86			
56658.48			
56656.23		R ₁ (15)	
56655.85			
56654.12			
56653.58			
56652.80			
56649.85	R ₃ (11)		
56648.83	R ₂ (11)	P ₃ (15)	
56646.85		P ₂ (15)	
56643.20	R ₁ (11)		
56638.43		P ₁ (15)	
56637.23			
56633.62	P ₃ (11)		
56632.96	P ₂ (11)		
56627.83	P ₁ (11)		
56626.55			
56622.58			
56621.37			
56619.72			
56617.69			
56615.44			
56614.99			

Wavenumber	B(16)-X(0)	B(17)-X(0)	B(18)-X(0)
56613.69			
56611.50			
56610.46			
56608.79			
56607.28			
56606.66			
56606.18			
56604.80	R ₂ (1)	R ₃ (13)	
56603.49		R ₂ (13)	
56601.86	R ₁ (1)		
56601.27			
56599.77			
56599.21	P ₁ (1)		
56597.71	R(3)		
56597.38		R ₁ (13)	
56595.68			
56594.59	R ₁ (3)		
56593.94			
56592.71	P ₃ (3)		
56592.01	P ₂ (3)		
56589.18	P ₁ (3)		
56588.46			
56586.01		P ₃ (13)	
56584.95		P ₂ (13)	
56583.21	R(5)		P ₃ (17)
56581.20			
56580.50			P ₂ (17)
56579.96	R ₁ (5)		
56579.37		P ₁ (13)	
56578.62			
56576.48			
56574.59	P(5)		
56571.89			P ₁ (17)
56571.64	P ₁ (5)		
56570.66			
56566.96			
56566.26			
56565.20			
56561.65	R ₃ (7)		
56561.43	R ₂ (7)		
56559.74			
56558.16	R ₁ (7)		
56554.09			
56552.27		R ₃ (15)	
56550.19	P ₃ (7)	R ₂ (15)	
56549.94	P ₂ (7)		
56548.32			
56546.80	P ₁ (7)		
56543.85		R ₁ (15)	
56540.56			

Wavenumber	B(16)-X(0)	B(17)-X(0)
56538.32		
56534.77		
56533.04	R ₃ (9)	
56532.48	R ₂ (9)	
56531.09		
56530.86		P ₃ (15)
56529.19	R ₁ (9)	P ₂ (15)
56526.51		
56525.36		
56523.35		P ₁ (15)
56522.06		
56519.57		
56518.19	P ₃ (9)	
56517.97	P ₂ (9)	
56514.74	P ₁ (9)	
56513.07		
56510.00		
56509.30		
56505.39		
56503.31		
56502.81		
56497.36	R ₃ (11)	
56496.46	R ₂ (11)	
56495.49		
56492.77	R ₁ (11)	
56492.08		R ₃ (17)
56489.68		R ₂ (17)
56483.13		
56482.66		R ₁ (17)
56480.97		
56479.37	P ₃ (11)	
56478.83	P ₂ (11)	
56475.47	P ₁ (11)	
56473.75		
56472.77		
56468.04		P ₃ (17)
56466.18		P ₂ (17)
56459.67		P ₁ (17)
56457.44		
56454.32	R ₃ (13)	
56453.24	R ₂ (13)	
56450.96		
56450.52		
56449.25	R ₁ (13)	
56442.94		
56438.92		
56435.13		
56433.44	P ₃ (13)	
56432.63	P ₂ (13)	
56430.28		

Wavenumber	B(15)-X(0)	B(16)-X(0)	B(17)-X(0)
56428.98		P ₁ (13)	
56427.38			
56426.73			
56424.08			R ₃ (19)
56421.20			R ₂ (19)
56420.02			
56415.04			
56413.66			R ₁ (19)
56411.92			
56410.28	R ₂ (1)		
56410.12			
56408.68			
56408.37	R ₁ (1)		
56407.64			
56405.39	P ₁ (1)		
56403.91	R(3)	R ₃ (15)	
56403.53			
56402.79		R ₂ (15)	
56401.57	R ₁ (3)		
56399.48			
56398.29	P ₃ (3)	R ₁ (15)	
56397.59	P ₂ (3)		P ₃ (19)
56395.52	P ₁ (3)		P ₂ (19)
56392.77			
56389.89	R(5)		
56388.10			P ₁ (19)
56387.82	R ₁ (5)		
56380.38	P(5)	P ₃ (15)	
56379.12		P ₂ (15)	
56378.59	P ₁ (5)		
56376.65			
56375.22		P ₁ (15)	
56372.64			
56369.45	R(7)		
56369.35			
56367.17	R ₁ (7)		
56362.47			
56361.66			
56356.70	P(7)		
56354.63	P ₁ (7)		
56349.94			
56348.30			R ₃ (21)
56346.60		R ₃ (17)	
56344.85		R ₂ (17)	R ₂ (21)
56342.24	R ₃ (9)		
56342.08	R ₂ (9)		
56340.04			
56339.61	R ₁ (9)		
56336.76			R ₁ (21)

Wavenumber	B(15)-X(0)	B(16)-X(0)	B(17)-X(0)
56336.33			
56333.96			
56331.59			
56326.04	P(9)		
56323.77	P ₁ (9)		
56319.79		P ₃ (17)	P ₃ (21)
56318.59			
56318.47		P ₂ (17)	
56316.67			P ₂ (21)
56314.18		P ₁ (17)	
56310.28			
56309.03			P ₁ (21)
56308.12	R ₃ (11)		
56307.71	R ₂ (11)		
56305.16	R ₁ (11)		
56299.96			
56298.15			
56295.27			
56288.58	P ₃ (11)		
56288.36	P ₂ (11)		
56285.99	P ₁ (11)		
56281.74		R ₃ (19)	
56279.69		R ₂ (19)	
56274.57		R ₁ (19)	
56272.81			
56267.22	R ₃ (13)		
56266.50	R ₂ (13)		
56263.78	R ₁ (13)		
56260.01			R ₂ (23)
56255.00			
56252.18		P ₃ (19)	
56250.50		P ₂ (19)	
56248.88			
56245.80		P ₁ (19)	
56244.29	P ₃ (13)		
56243.91	P ₂ (13)		
56241.33	P ₁ (13)		
56237.67			
56233.58			P ₃ (23)
56232.78			
56230.11			P ₂ (23)
56226.81			
56225.14			
56223.42			

Wavenumber	B(14)-X(0)	B(15)-X(0)	B(16)-X(0)	B(17)-X(0)
56222.12				P ₁ (23)
56219.36		R ₃ (15)		
56218.38		R ₂ (15)		
56215.41		R ₁ (15)		
56209.48			R ₃ (21)	
56207.05			R ₂ (21)	
56201.50			R ₁ (21)	
56193.17		P ₃ (15)		
56192.45		P ₂ (15)		
56189.76		P ₁ (15)		
56183.31				
56178.21				
56177.06			P ₃ (21)	
56176.35	R ₂ (1)			
56175.04	R ₁ (1)		P ₂ (21)	
56173.95				
56171.95	P ₁ (1)			
56170.13	R(3)		P ₁ (21)	
56168.77	R ₁ (3)			
56165.74				
56164.30		R ₃ (17)		
56163.37	P(3)	R ₂ (17)		
56162.40	P ₁ (3)			
56160.04		R ₁ (17)		
56159.12				
56157.28	R(5)			
56157.12				
56155.83	R ₁ (5)			
56147.15	P(5)			
56145.83	P ₁ (5)			
56141.13				
56137.89	R(7)			
56136.27	R ₁ (7)			
56135.25		P ₃ (17)		
56134.16		P ₂ (17)		
56131.20		P ₁ (17)		
56129.71			R ₃ (23)	
56127.02			R ₂ (23)	
56124.04	P(7)			
56122.66	P ₁ (7)			
56120.89			R ₁ (23)	
56117.53				
56111.93	R(9)			
56111.89				
56110.15	R ₁ (9)			
56102.62		R ₃ (19)		
56101.12		R ₂ (19)		
56097.67		R ₁ (19)		
56094.44	P(9)		P ₃ (23)	
56092.87	P ₁ (9)		P ₂ (23)	

Wavenumber	B(14)-X(0)	B(15)-X(0)	B(16)-X(0)	B(13)-X(0) ¹⁶ O ¹⁸ O
56086.81			P ₁ (23)	
56079.48	R ₃ (11)			
56079.25	R ₂ (11)			
56077.39	R ₁ (11)			
56073.94				
56070.10		P ₃ (19)		
56068.93		P ₂ (19)		
56065.70		P ₁ (19)		
56058.29	P ₃ (11)			
56058.03	P ₂ (11)			
56056.53	P ₁ (11)			
56045.61				
56042.11				
56040.38	R ₃ (13)			
56040.01	R ₂ (13)			
56038.01	R ₁ (13)			
56035.30				
56033.69		R ₃ (21)		
56032.47				
56032.00		R ₂ (21)		
56028.16		R ₁ (21)		
56024.22				
56023.08				
56015.60	P ₃ (13)			
56015.43	P ₂ (13)			
56013.57	P ₁ (13)			
56004.87			P ₃ (25)	
56002.06			P ₂ (25)	
56001.50				
55998.45				R ₂ (1)
55998.04		P ₃ (21)		
55997.27				R ₁ (1)
55996.43		P ₂ (21)	P ₁ (25)	
55996.15				R(2)
55994.64	R ₃ (15)			
55994.10	R ₂ (15)			
55993.19		P ₁ (21)		
55992.01	R ₁ (15)			
55986.42				R(4)
55985.28				R ₁ (4)+P(3)
55984.03				P ₁ (3)
55979.00				R(5)
55977.63				R ₁ (5)
55977.14				P(4)
55976.05				P ₁ (4)
55969.83				R(6)
55968.41				R ₁ (6)
55967.67				P(5)

Wavenumber	B(13)-X(0)	B(14)-X(0)	B(15)-X(0)	B(13)-X(0) ¹⁶ O ¹⁸ O
55966.30		P ₃ (15)		
55965.99		P ₂ (15)		
55963.98		P ₁ (15)		
55960.79				
55958.84				R(7)
55957.58			R ₃ (23)	R ₁ (7)
55956.50				P(6)
55955.55			R ₂ (23)	P ₁ (6)
55951.49			R ₁ (23)	
55948.67				
55947.27				R(8)
55944.99				R ₁ (8)
55943.57				P(7)
55942.37		R ₃ (17)		P ₁ (7)
55941.56		R ₂ (17)		
55939.28		R ₁ (17)		
55936.58				
55932.99				
55932.10				
55930.61				
55929.02				P(8)
55927.76				P ₁ (8)
55924.47				
55918.98			P ₃ (23)	
55917.21			P ₂ (23)	
55913.42			P ₁ (23)	
55912.67				P(9)
55911.31				P ₁ (9)
55910.35		P ₃ (17)		
55909.88		P ₂ (17)		
55907.79		P ₁ (17)		
55904.02				
55901.78	R ₂ (1)			
55900.78	R ₁ (1)			
55899.76				
55897.61	P ₁ (1)			
55896.12	R(3)			
55895.07	R ₁ (3)			
55889.06	P ₂ (3)			
55888.14	P ₁ (3)			
55883.86	R(5)	R ₃ (19)		
55882.83	R ₁ (5)	R ₂ (19)		
55879.82		R ₁ (19)		
55873.05	P(5)			
55872.11	P ₁ (5)		R ₂ (25)	
55867.62			R ₁ (25)	
55865.48	R(7)			
55864.28	R ₁ (7)			

Wavenumber	B(13)-X(0)	B(14)-X(0)	B(15)-X(0)
55856.08			
55850.68	P(7)		
55849.65	P ₁ (7)		
55847.93		P ₃ (19)	
55847.18		P ₂ (19)	
55844.87		P ₁ (19)	
55840.69	R(9)		
55839.41	R ₁ (9)		
55832.78			P ₃ (25)
55830.77			P ₂ (25)
55826.69			P ₁ (25)
55822.15	P ₃ (9)		
55821.97	P ₂ (9)		
55820.89	P ₁ (9)		
55817.52		R ₃ (21)	
55816.26		R ₂ (21)	
55813.62		R ₁ (21)	
55809.65	R(11)		
55808.22	R ₁ (11)		
55806.18			
55804.05			
55802.45			
55798.68			
55791.70			
55787.06	P(11)		
55785.83	P ₁ (11)		
55781.20			
55778.73		P ₃ (21)	
55777.73		P ₂ (21)	
55775.31		P ₁ (21)	
55772.48	R ₃ (13)		
55772.20	R ₂ (13)		
55770.64	R ₁ (13)		
55745.79	P(13)		
55744.40	P ₁ (13)		
55740.64		R ₁ (23)	
55739.46			P ₃ (27)
55737.17			P ₂ (27)
55732.70			P ₁ (27)
55728.64	R ₃ (15)		
55728.28	R ₂ (15)		
55726.72	R ₁ (15)		
55720.84			
55718.94			
55702.83		P ₃ (23)	
55701.60		P ₂ (23)	
55698.20	P(15)	P ₁ (23)	
55696.64	P ₁ (15)		

Wavenumber	B(13)-X(0)	B(14)-X(0)	B(12)-X(0) ¹⁶ O ¹⁸ O
55689.69			R ₂ (1)
55689.29			R ₁ (1)
55687.89			R(2)
55687.14			R ₁ (2)
55685.87			P(1)
55684.40			R ₃ (3)
55684.10			R ₂ (3)
55683.34			R ₁ (3)
55682.40			P(2)
55681.66			P ₁ (2)
55678.57	R ₃ (17)		R(4)
55678.03	R ₂ (17)		R ₁ (4)
55676.40	R ₁ (17)		P(3)
55675.81			P ₁ (3)
55671.85			R ₃ (5)
55671.65			R ₂ (5)
55670.99			R ₁ (5)
55669.18			P ₃ (4)
55668.88			P ₂ (4)
55668.19			P ₁ (4)
55665.48		R ₃ (25)	
55663.79		R ₂ (25)	
55663.09			R ₃ (6)
55662.91			R ₂ (6)
55662.07			R ₁ (6)
55660.77		R ₁ (25)	
55659.90			P ₃ (5)
55659.65			P ₂ (5)
55658.94			P ₁ (5)
55652.77			R ₃ (7)
55652.59			R ₂ (7)
55651.78			R ₁ (7)
55648.97			P(6)
55648.11			P ₁ (6)
55644.44	P ₃ (17)		
55644.03	P ₂ (17)		
55642.52	P ₁ (17)		
55640.76			R ₃ (8)
55640.55			R ₂ (8)
55639.67			R ₁ (8)
55638.79			
55636.32			P(7)
55635.72			P ₁ (7)
55631.39			
55627.33			R ₃ (9)
55626.96			R ₂ (9)
55626.05			R ₁ (9)
55622.33			P ₃ (8)