

EPHEMERIDES

7 4.9

7 5.0

Table with columns for year, alpha\_2000, delta\_2000, Delta, r, beta, V for two columns of data. Each entry includes a star ID (e.g., 33966, 387238, 418190) and a list of time-variant parameters.















































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7 5.5

7 5.5

Table with columns for year, object name, epoch, right ascension, declination, distance, proper motion, and magnitude. It contains multiple entries for objects like 295725, 276011, 7675, 184372, 320418, 469982, 255097, 90916, 471286, 436237, 512971, 225927, 494486, 98468, 395284, 122942, 251012, and 396139.









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7 5.5

7 5.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>417393</b>	2006 <i>HW</i> <sub>116</sub>	7 5.5	8 <sup>o</sup> .64	4.5/	6.1	17	<b>147081</b>	2002 <i>SB</i> <sub>36</sub>	7 5.6	246 <sup>o</sup> .38	0.7/	5.7	18
5 31	19 24.60	-15 11.0	1.169	2.044	19.1	20.7	5 31	19 27.63	-20 13.4	1.820	2.671	14.4	20.7
<b>24269</b>	Kittappa	7 5.5	21 <sup>o</sup> .51	1.4/	5.9	18	<b>295841</b>	2008 <i>VT</i> <sub>13</sub>	7 5.6	173 <sup>o</sup> .21	3.6/	6.5	17
5 31	19 25.12	-17 26.8	1.393	2.260	17.0	18.1	5 31	19 24.90	-11 45.5	2.448	3.269	12.1	22.1
<b>439478</b>	2013 <i>YW</i> <sub>92</sub>	7 5.5	152 <sup>o</sup> .12	0.9/	5.8	17	<b>162394</b>	2000 <i>CW</i> <sub>95</sub>	7 5.6	47 <sup>o</sup> .41	1.5/	6.0	18
5 31	19 26.83	-19 53.2	2.424	3.260	11.7	22.2	5 31	19 24.06	-17 17.4	1.870	2.721	14.0	20.0
<b>400901</b>	2010 <i>RM</i> <sub>155</sub>	7 5.5	260 <sup>o</sup> .51	4.4/	6.9	18	<b>80796</b>	2000 <i>CG</i> <sub>87</sub>	7 5.6	186 <sup>o</sup> .01	0.5/	5.7	18
5 31	19 21.29	- 8 22.2	2.449	3.267	12.2	21.3	5 31	19 28.14	-20 23.1	1.937	2.784	13.8	20.5
<b>207025</b>	2004 <i>VT</i> <sub>57</sub>	7 5.5	310 <sup>o</sup> .73	5.6/	4.2	18	<b>284591</b>	2007 <i>TT</i> <sub>199</sub>	7 5.6	6 <sup>o</sup> .71	7.1/	3.9	16
5 31	19 25.88	-30 22.9	1.174	2.059	18.3	19.9	5 31	19 25.84	-36 24.7	1.439	2.308	16.5	20.2
<b>478017</b>	2011 <i>SD</i> <sub>197</sub>	7 5.5	314 <sup>o</sup> .62	0.2/	5.5	17	<b>62894</b>	2000 <i>UP</i> <sub>101</sub>	7 5.6	143 <sup>o</sup> .59	4.3/	6.6	18
5 31	19 24.31	-22 49.1	1.884	2.742	13.6	21.7	5 31	19 22.89	- 9 18.3	2.607	3.421	11.6	20.2
<b>198032</b>	2004 <i>RS</i> <sub>241</sub>	7 5.6	224 <sup>o</sup> .31	5.8/	4.2	18	<b>178928</b>	2001 <i>QP</i> <sub>41</sub>	7 5.6	11 <sup>o</sup> .40	4.7/	6.9	17
5 31	19 32.01	-37 56.6	2.111	2.947	13.2	21.1	5 31	19 20.15	-11 31.4	1.110	1.987	19.7	19.6
<b>335619</b>	2006 <i>GJ</i> <sub>21</sub>	7 5.6	255 <sup>o</sup> .48	5.4/	4.2	18	<b>135610</b>	2002 <i>JS</i> <sub>26</sub>	7 5.6	354 <sup>o</sup> .53	3.1/	4.6	18
5 31	19 30.36	-36 0.6	1.997	2.842	13.5	21.2	5 31	19 20.58	-23 47.4	1.021	1.920	19.3	18.3
<b>157303</b>	2004 <i>SK</i> <sub>22</sub>	7 5.6	11 <sup>o</sup> .21	3.0/	6.1	17	<b>304482</b>	2006 <i>UJ</i> <sub>96</sub>	7 5.6	116 <sup>o</sup> .39	2.9/	4.6	18
5 31	19 24.32	-15 51.2	1.569	2.427	15.9	19.3	5 31	19 26.20	-29 41.0	2.342	3.189	11.7	21.5



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Table with columns for year, alpha\_2000, delta\_2000, Delta, r, beta, V, and a list of data points for various astronomical objects like 274141, 368150, 260789, etc.













































