The Uranian Transneptunian Ephemeris, 1900-2050 at Midnight

Compiled and programmed by Neil F. Michelsen

One year per page, positions given every five days. Note dates of stations given at the very bottom. The "specks" are gray "shadowing" showing the retrograde periods. This is smoothly printed in the actual book, but a simple B&W scan makes it choppy. The alternative is to scan as a photo, but at 100% of original, 600 dpi, the file size is simply huge, even as a black & white photo.

Adobe Acrobat Reader will let you enlarge the text as much as you like. To return to the ephemeris itself, click here.

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0	Jan 4	108%53	8 9 28R	14 1 ,40	2 3 43R	21 10,47	18 ¤ 00R	17 0 23R	28 № 10
	9	11 01	8 24	14 43	2 39	21 50	17 57	17 20	28 13
4	14	11 09	8 19	14 45	2 35	21 52	17 54	17 17	28 16
	19	11 17	8 14	14 48	2 31	21 55	17 51	17 14	28 18
9	24	11 25	8 08	14 49	2 27	21 57	17 48	17 11	28 20
	29	11 33	8 03	14 51	2 23	21 58	17 46	17 07	28 22
	Feb 3	11 41	7 58	14 52	2 19	22 00	17 44	17 04	28 23
	8	11 50	7 53	14 52	2 15	22 01	17 43	17 00	28 24
	13 18	11 58 12 06	7 48 7 43	14 52R 14 52	2 15 2 11 2 07	22 01 22 01R	17 41 17 40	16 57 16 53	28 25 28 26
	23	12 14	7 38	14 51	2 04	22 01	17 40	16 50	28 26R
	28	12 21	7 34	14 50	2 00	22 01	17 39	16 47	28 26
	Mar 5	12 29	7 30	14 49	1 57	22 00	17 39D	16 44	28 26
	10	12 36	7 26	14 47	1 55	21 59	17 40	16 41	28 25
	15	12 43	7 23	14 44	1 52	21 57	17 40	16 38	28 24
	20	12 49	7 20	14 42	1 50	21 55	17 41	16 35	28 23
	25	12 55	7 17	14 39	1 48	21 53	17 43	16 33	28 21
	30	13 00	7 15	14 35	1 47	21 51	17 44	16 31	28 19
	Apr 4	13 05	7 13	14 32	1 46	21 48	17 47	16 29	28 17
	9	13 10	7 12	14 28	1 45	21 45	17 49	16 28	28 15
	14	13 13	7 11	14 24	1 45	21 42	17 51	16 27	28 13
	19	13 17	7 10D	14 20	1 45D	21 38	17 54	16 26	28 10
	24	13 19	7 11	14 16	1 45	21 35	17 58	16 25	28 07
	29	13 22	7 11	14 11	1 46	21 31	18 01	16 25	28 04
	May 4	13 23	7 12	14 07	1 47	21 28	18 04	16 25D	28 01
	9	13 24	7 14	14 03	1 49	21 24	18 08	16 25	27 58
	14	13 24R	7 16	13 58	1 51	21 20	18 12	16 26	27 55
	19	13 24	7 19	13 54	1 53	21 17	18 16	16 27	27 52
	24	13 23	7 22	13 50	1 56	21 13	18 20	16 28	27 49
	29	13 22	7 25	13 46	1 59	21 10	18 25	16 30	27 46
	Jun 3 8	13 20 13 17	7 29 7 33 7 28	13 42 13 38	2 02 2 06 2 10	21 06 21 03 21 00	18 29 18 33 18 38	16 32 16 34 16 36	27 43 27 40 27 37
	13 18 23	13 14 13 10 13 06	7 38 7 43 7 48	13 35 13 32 13 29	2 10 2 14 2 18	21 00 20 57 20 54	18 38 18 42 18 47	16 36 16 39 16 42	27 34 27 32
	28 28 Jul 3	13 02 12 57	7 54 7 59	13 27 13 27 13 24	2 23 2 27	20 54 20 51 20 49	18 51 18 55	16 42 16 45 16 49	27 29 27 27
	301 3 8 13	12 57 12 52 12 46	8 05 8 11	13 23 13 21	2 32 2 37	20 49 20 47 20 45	18 59 19 03	16 52 16 56	27 25 27 23
	18	12 41	8 18	13 20	2 42	20 44	19 07	17 00	27 22
	23	12 35	8 24	13 20	2 47	20 43	19 10	17 04	27 20
	28	12 29 12 22	8 30 8 37	13 19D 13 20	2 52 2 57	20 42 20 42	<u>19 13</u> 19 16	17 08 17 12	27 19 27 18
	Aug 2 7 12	12 16 12 10	8 43 8 50	13 20 13 21	3 02 3 06	20 42D 20 42	19 19 19 22	17 16 17 20	27 18 27 18D
	17	12 04	8 56	13 23	3 11	20 42	19 24	17 24	27 18
	22	11 58	9 02	13 24	3 16	20 43	19 26	17 28	27 18
	27	<u>11 53</u>	9 08	13 27	3 20	20 45	<u>19 28</u>	17 <u>32</u>	27 19
	Sep 1	11 47	9 14	13 29	3 25	20 46	19 29	17 <u>36</u>	27 20
	6	11 42 11 37	9 19 9 25	13 32 13 36	3 29 3 32	20 48 20 51	19 30 19 31	17 40 17 44	27 21 27 23
	16	11 33	9 30	13 39	3 36	20 53	19 31	17 48	27 25
	21	11 29	9 34	13 43	3 39	20 56	19 31R	17 51	27 27
	26	<u>11 25</u>	9 39	<u>13 48</u>	3 42	21 00	<u>19 31</u>	17 <u>54</u>	27 29
	Oct 1	11 22	9 43	13 52	3 45	21 03	19 30	17 57	27 32
	6	11 20	9 46	13 57	3 47	21 07	19 29	18 00	27 34
	11	11 18	9 49	14 02	3 49	21 11	19 28	18 02	27 37
	16	11 16	9 52	14 07	3 51	21 15	19 26	18 04	27 41
	21	11 16	9 54	14 12	3 52	21 19	19 24	18 06	27 44
	26	11 15D	9 56	14 18	3 53	21 23	19 22	18 08	27 48
	31	11 16	9 57	14 23	3 53	21 28	19 19	18 09	27 51
	Nov 5	11 17	9 58	14 29	3 53R	21 33	19 17	18 10	27 55
	10	11 19	9 58R	14 35	3 53	21 37	19 14	18 11	27 59
	15	11 21	9 58	14 40	3 52	21 42	19 10	18 11R	28 03
	20	11 24	9 57	14 46	3 51	21 47	19 07	18 11	28 07
	25	11 28	9 56	14 51	3 49	21 51	19 04	18 10	28 11
	30	11 32	9 54	14 56	3 47	21 56	19 00	18 10	28 14
	Dec 5 10	11 37 11 42	9 52 9 49	15 02 15 07	3 45 3 43 2 40	22 00 22 05	18 57 18 53 18 49	18 09 18 07 18 06	28 18 28 22 28 26
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	20	11 54	9 42	15 16	3 37	22 13	18 46	18 04	28 29
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	30 Stations:	12807	9ଣ୍ 34	151624	3 រា 30 Apr 15	22 17 22 17 22 17 20 Feb 17	18 1 39 Mar 1	17 3 59 Apr 30	28 33 28∿36 Feb 23
	Stations.	May 13 Oct 24	Apr 19 Nov 9	Feb 11 Jul`27	Nov 2	Aug 5	Sep 17	Nov 15	Aug 12