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# SW URSAE MAJORIS

Further estimates of the current outburst (cf E489):  
 Feb 26.949UT, 11.4 (P.Schmeer, Germany); Mar 1.90, 11.0  
 (W.Worraker, Didcot).

# MICROLINK

Following the cessation of MICROLINK, the following have secured  
 alternative mailboxes on JANET:

David Moore c/o CBS%EARN-RELAY::IE.UCD.CCVAX::B\_HAUGHEY  
 Glyn Marsh CBS%UK.AC.LANCASHIRE-POLY.PRIME1::MARSH\_G

# SUPERNOVA 1991L IN MCG +07-34-134

C. Pollas, Observatoire de la Cote d'Azur, reports his discovery of  
 an apparent supernova in MCG +07-34-134 = IRAS 16395+3923, found on  
 plates obtained Feb. 24.17, 25.17, and 26.17 UT with the OCA  
 Schmidt telescope by A. Maury and himself. SN 1991L, of magnitude  
 R = 18, is located at R.A. = 16h39m32s.73, Decl. = +39 23'13".6  
 (equinox 1950.0), or 2".5 west and 8".2 north of the centre of the  
 western part of this unusual galaxy system that is described as a  
 pair. A nearby star (R = 14.5) is located at R.A. = 16h39m37s.59,  
 Decl. = +39 23'23".7.  
 IAUC 5200

# COMET ARAI (1991b)

Improved orbital elements by S. Nakano, Sumoto, Japan, from 59  
 observations 1990 Dec. 23-1991 Feb. 13, taken from MPC 17791:

T = 1990 Dec. 10.8829 ET Peri. = 337.6292  
 e = 0.990387 Node = 114.8257 1950.0  
 q = 1.434119 AU Incl. = 70.9787

Ephemeris generated using a program developed by N.James:

$m = 10.5 + 5.0 \log R + 10.0 \log r$

Date	R.A. (1950) Dec.			R	r	Elong	Mag.	Motion	
	h	m	o ' "	(AU)	(AU)	o		" / hr	P.A.
1991 Mar									
1.00	6	3.19	+68 59.7	1.296	1.819	104.6	13.7	24	330
2.00	6	2.36	+69 7.8	1.317	1.827	103.8	13.7	22	333
3.00	6	1.67	+69 15.6	1.338	1.836	103.0	13.8	21	336
4.00	6	1.10	+69 22.9	1.358	1.844	102.3	13.8	19	339
5.00	6	0.66	+69 29.9	1.379	1.853	101.5	13.9	18	343
6.00	6	0.33	+69 36.5	1.400	1.861	100.8	13.9	17	348
7.00	6	0.13	+69 42.8	1.420	1.870	100.1	14.0	16	353
8.00	6	0.05	+69 48.8	1.441	1.878	99.4	14.0	15	358
9.00	6	0.08	+69 54.5	1.461	1.887	98.7	14.1	14	4
10.00	6	0.22	+70 0.0	1.482	1.895	98.0	14.1	14	10
11.00	6	0.48	+70 5.3	1.502	1.904	97.3	14.2	13	17
12.00	6	0.84	+70 10.3	1.523	1.913	96.7	14.2	13	23
13.00	6	1.31	+70 15.1	1.543	1.922	96.0	14.3	13	29
14.00	6	1.87	+70 19.7	1.564	1.930	95.4	14.3	14	34
15.00	6	2.54	+70 24.1	1.584	1.939	94.8	14.4	14	40
16.00	6	3.31	+70 28.4	1.605	1.948	94.1	14.4	15	44
17.00	6	4.17	+70 32.4	1.625	1.957	93.5	14.5	15	48
18.00	6	5.13	+70 36.3	1.645	1.966	92.9	14.5	16	52
19.00	6	6.18	+70 40.1	1.666	1.975	92.3	14.6	16	56
20.00	6	7.31	+70 43.7	1.686	1.984	91.8	14.6	17	59
21.00	6	8.54	+70 47.2	1.706	1.993	91.2	14.7	18	61
22.00	6	9.84	+70 50.5	1.726	2.002	90.6	14.7	18	64
23.00	6	11.23	+70 53.8	1.746	2.011	90.1	14.7	19	66

Guy M Hurst

PB