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## MPEC 2019-V187 : DAILY ORBIT UPDATE (2019 November 14)

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M.P.E.C. 2019-V187

Issued 2019 November 14, 16:39 UT

The Minor Planet Electronic Circulars contain information on unusual minor planets and routine data on comets. They are published on behalf of Division F of the International Astronomical Union by the Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

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DAILY ORBIT UPDATE (2019 November 14)

Update to 2019-V148

Full-precision elements for the objects listed here are available at <https://www.minorplanetcenter.net/iau/MPCORB.html>

**Erroneous identification:**

# K10P49Y K15F04Y MPO332468

**Erroneous double designation:**

# K13H60Z K12Y09R MPO399492

**New identifications:**

K07X24A	K18V85L	Doppler
K08S40V	K12TC4V	Doppler
K17A13B	K11Y07P	Doppler
K17B92W	K18S12U	Doppler
K18S14R	K17H00B	Doppler
K18R04F	K15F04Y	Lopez
K13G23B	K19R00N	Odasso
K08CL4G	K19J20W	Doppler
K08CL4G	K19J20W	Odasso

**New double designation:**

K19N06C K19O04C Doppler

**New multiple-opposition orbits:**

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J98F74J	18.8	0.15	K194R	277.816	282.890	197.097	28.117	0.53800	2.38861	4	X
K00R56U	16.8	0.15	K194R	8.324	1.677	310.967	21.462	0.21708	2.79252	3	X
K01R51J	16.9	0.15	K194R	320.618	243.915	149.748	26.035	0.37314	2.71564	4	X
K01SM1N	18.2	0.15	K194R	313.357	4.369	24.844	3.429	0.25738	2.34113	3	X
K01TA3Z	17.5	0.15	K194R	331.297	24.400	332.337	3.681	0.35154	2.73478	4	X
K01XQ7T	17.1	0.15	K194R	311.593	86.999	9.817	13.656	0.22096	2.72764	8	X
K02N41B	17.5	0.15	K194R	54.666	160.697	111.376	24.103	0.05378	1.96317	8	X
K02N82E	16.9	0.15	K194R	310.160	107.390	289.341	9.877	0.19714	2.59026	6	X
K02N82O	17.2	0.15	K194R	318.559	78.530	309.635	11.823	0.28707	2.58731	6	X
K02PD1N	16.3	0.15	K194R	354.378	91.238	245.038	14.483	0.13188	2.60580	8	X
K02RD0F	15.8	0.15	K194R	359.571	11.403	335.931	16.942	0.18486	3.14543	6	X
K04B15U	16.0	0.15	K194R	275.695	156.785	306.586	16.230	0.18189	3.14948	6	X
K05Q73D	16.7	0.15	K194R	321.942	194.641	178.516	17.526	0.26191	2.79134	6	X
K05SL4S	16.8	0.15	K194R	335.871	120.199	242.076	11.178	0.23617	2.78630	6	X





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P2399	C2019	11	13.70446	01	03	57.96	-13	54	44.4	18.5	VqEV187C97
P2399	C2019	11	13.70598	01	03	57.15	-13	54	44.0	18.4	VqEV187C97
T7418	C2019	11	13.31152321	56	04.59	+04	21	42.7	18.46	oVEV187T08	
T7418	C2019	11	13.31479321	56	04.93	+04	21	44.1	18.40	oVEV187T08	
T7418	C2019	11	13.31990221	56	05.46	+04	21	46.3	18.41	oVEV187T08	
T7418	C2019	11	13.32980121	56	06.48	+04	21	49.6	18.55	oVEV187T08	
T7418	C2019	11	14.22908	21	57	44.796	+04	27	24.21	18.5	iUEV187F52
T7418	C2019	11	14.24217	21	57	46.127	+04	27	29.14	18.6	iUEV187F52
T7418	C2019	11	14.25528	21	57	47.460	+04	27	34.02	18.7	iUEV187F52
T7418	C2019	11	14.26844	21	57	48.800	+04	27	38.88	19.0	iUEV187F52
U3262	C2019	11	13.54779410	26	47.80	+54	33	58.2	18.75	oVEV187T05	
U3262	C2019	11	13.55170710	26	49.96	+54	33	54.7	18.55	oVEV187T05	
U3262	C2019	11	13.55693910	26	52.71	+54	33	48.7	18.40	oVEV187T05	
U3262	C2019	11	13.56736510	26	58.26	+54	33	37.6	18.41	oVEV187T05	
V1044	C2019	11	13.56925712	21	06.99	+51	35	34.1	17.51	oVEV187T05	
V1044	C2019	11	13.57262312	21	05.96	+51	35	39.1	17.89	oVEV187T05	
V1044	C2019	11	13.57823112	21	03.93	+51	35	45.4	17.63	oVEV187T05	
V1044	C2019	11	13.58848012	21	00.58	+51	35	57.2	17.72	oVEV187T05	
W6777	KC2019	11	08.15079923	00	59.23	+18	37	07.3	18.5	VuEV187H21	
W6777	KC2019	11	08.15245023	00	59.56	+18	37	04.4	18.5	VuEV187H21	
W6777	KC2019	11	08.15460523	00	59.96	+18	37	00.4	18.3	VuEV187H21	
W6777	KC2019	11	08.15676123	01	00.38	+18	36	56.2	18.3	VuEV187H21	
W6777	KC2019	11	08.15891723	01	00.81	+18	36	52.1	18.6	VuEV187H21	
W6777	KC2019	11	08.16107323	01	01.23	+18	36	48.1	18.6	VuEV187H21	
a3067	C2019	11	14.21330	20	18	43.133	+05	29	49.95	19.7	iUEV187F51
a3067	C2019	11	14.22548	20	18	44.861	+05	30	20.60	19.8	iUEV187F51
a3067	C2019	11	14.24986	20	18	48.315	+05	31	21.79	19.6	iUEV187F51
i2243	KC2019	11	08.15940901	55	32.68	+36	02	22.7	18.2	VuEV187H21	
i2243	KC2019	11	08.16133401	55	32.52	+36	02	24.0	18.3	VuEV187H21	
i2243	KC2019	11	08.16308601	55	32.39	+36	02	24.9	18.2	VuEV187H21	
i2243	KC2019	11	08.16484001	55	32.24	+36	02	26.2	18.2	VuEV187H21	
j5322	S2019	11	11.40238	09	20	17.18	+11	07	31.3	LEV187C51	
j5322	s2019	11	11.40238	1	-	6732.0772	+	1307.1276	+	22.4179	EV187C51
j5322	S2019	11	11.46771	09	20	22.80	+11	07	02.8	LEV187C51	
j5322	s2019	11	11.46771	1	-	6734.4379	+	1292.3495	+	78.4328	EV187C51
j5322	S2019	11	11.53316	09	20	28.43	+11	06	34.2	LEV187C51	
j5322	s2019	11	11.53316	1	-	6735.5382	+	1288.2388	+	51.1905	EV187C51
j5322	S2019	11	11.66394	09	20	39.63	+11	05	38.0	LEV187C51	
j5322	s2019	11	11.66394	1	-	6738.8289	+	1269.3198	+	79.9503	EV187C51
j5322	S2019	11	11.66406	09	20	39.65	+11	05	37.6	LEV187C51	
j5322	s2019	11	11.66406	1	-	6737.4200	+	1279.9524	-	3.2746	EV187C51
j5322	S2019	11	11.79484	09	20	50.82	+11	04	42.0	LEV187C51	
j5322	s2019	11	11.79484	1	-	6740.9126	+	1261.0771	+	25.4421	EV187C51
j5322	S2019	11	11.92561	09	21	01.90	+11	03	45.5	LEV187C51	
j5322	s2019	11	11.92561	1	-	6744.2336	+	1242.1672	+	54.1820	EV187C51
j5322	S2019	11	12.05652	09	21	13.02	+11	02	49.6	LEV187C51	
j5322	s2019	11	12.05652	1	-	6746.0794	+	1233.8816	-	0.3504	EV187C51
j8745	C2019	11	13.48903606	06	47.61	-07	17	34.6	17.42	oVEV187T08	
j8745	C2019	11	13.49272806	06	48.04	-07	17	33.9	17.46	oVEV187T08	
j8745	C2019	11	13.49890706	06	48.79	-07	17	33.5	17.53	oVEV187T08	
j8745	C2019	11	13.50910906	06	49.98	-07	17	32.7	17.39	oVEV187T08	
m1394	C2019	11	08.27119803	26	35.40	+22	26	51.0	14.7	VuEV187H21	
m1394	C2019	11	08.27262203	26	34.95	+22	26	43.8	14.7	VuEV187H21	
m1394	C2019	11	08.27404603	26	34.51	+22	26	36.5	14.7	VuEV187H21	
m1394	C2019	11	08.27546703	26	34.07	+22	26	29.1	14.7	VuEV187H21	
m1394	C2019	11	08.27689303	26	33.62	+22	26	21.8	14.7	VuEV187H21	
n2143	KC2019	11	12.84074	22	21	33.48	-00	06	49.6	18.2	GVEV187A16
n2143	KC2019	11	12.85662	22	21	34.35	-00	07	06.4	18.2	GVEV187A16
n2143	C2019	11	13.31944322	22	02.28	-00	15	03.8	18.22	oVEV187T08	
n2143	C2019	11	13.32274622	22	02.48	-00	15	07.4	18.76	oVEV187T08	
n2143	C2019	11	13.32793422	22	02.75	-00	15	13.2	18.28	oVEV187T08	
n2143	C2019	11	13.33775822	22	03.34	-00	15	22.8	18.05	oVEV187T08	
o3871	C2019	11	14.21726	20	41	14.536	+03	44	49.56	20.3	iUEV187F51
o3871	C2019	11	14.22942	20	41	17.991	+03	44	32.73	20.2	iUEV187F51
o3871	C2019	11	14.25382	20	41	24.959	+03	43	59.27	20.5	iUEV187F51
q8609	C2019	11	13.46405807	16	31.24	+42	24	45.9	18.03	oVEV187T05	
q8609	C2019	11	13.47380207	16	28.58	+42	24	45.4	18.27	oVEV187T05	
q8609	C2019	11	13.48386907	16	25.93	+42	24	45.8	18.20	oVEV187T05	

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