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228133 Ripoll (2009 QM22)

Classification: [Main-belt Asteroid](#) SPK-ID: 2228133

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Orbital Elements at Epoch 2455400.5 (2010-Jul-23.0) TDB
 Reference: MPO165276 (heliocentric ecliptic J2000)

Element	Value	Uncertainty (1-sigma)	Units
e	0.1881278	n/a	
a	2.3580777	n/a	AU
q	1.9144577	n/a	AU
i	1.70833	n/a	deg
node	305.61111	n/a	deg
peri	5.72344	n/a	deg
M	109.53210	n/a	deg
t₀	2454998.0846726 (2009-Jun-15.58467261)	n/a	JED
period	1322.6215682	n/a	d
	3.62	n/a	yr
n	0.27218670	n/a	deg/d
Q	2.8016977	n/a	AU

Orbit Determination Parameters

# obs. used (total)	45
first obs. used	1991-??-??
last obs. used	2009-11-17
# oppositions	4
planetary ephem.	DE403
quality code	1
fit RMS	0.55
data source	MPC:mpu
producer	MPCADO

Additional Information

[T_{jup}](#) = 3.528

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Physical Parameter Table

Parameter	Symbol	Value	Units	Sigma	Reference	Notes
absolute magnitude	H	17.8	mag	n/a	MPO165276	

228133 Ripoll

Discovered 2009 Aug. 20 at the Observatorio de La Sagra.

Andrés Ripoll (b. 1933) was involved in the Apollo, Apollo-Soyuz and Skylab space programs. He was the founder and manager of the Villafranca del Castillo tracking station (Spain) and the European Astronaut Centre (Germany). He has received awards for his extensive professional and research activities.

NOTE: some special characters may not display properly (any characters within {} are an attempt to place the proper accent above a character)

Reference: 20100330/MPCPages.arc

Last Updated: 2010-04-05

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