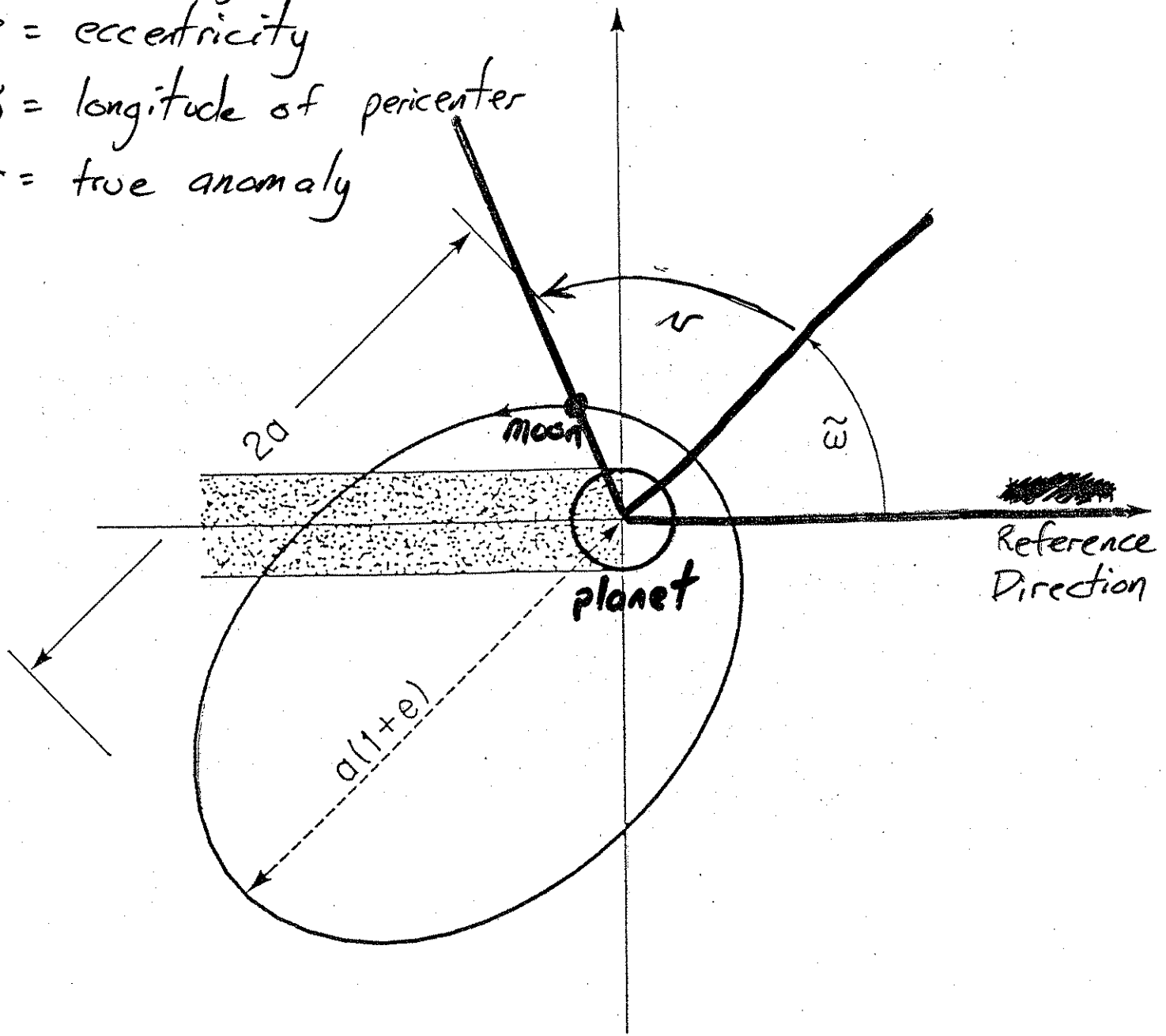
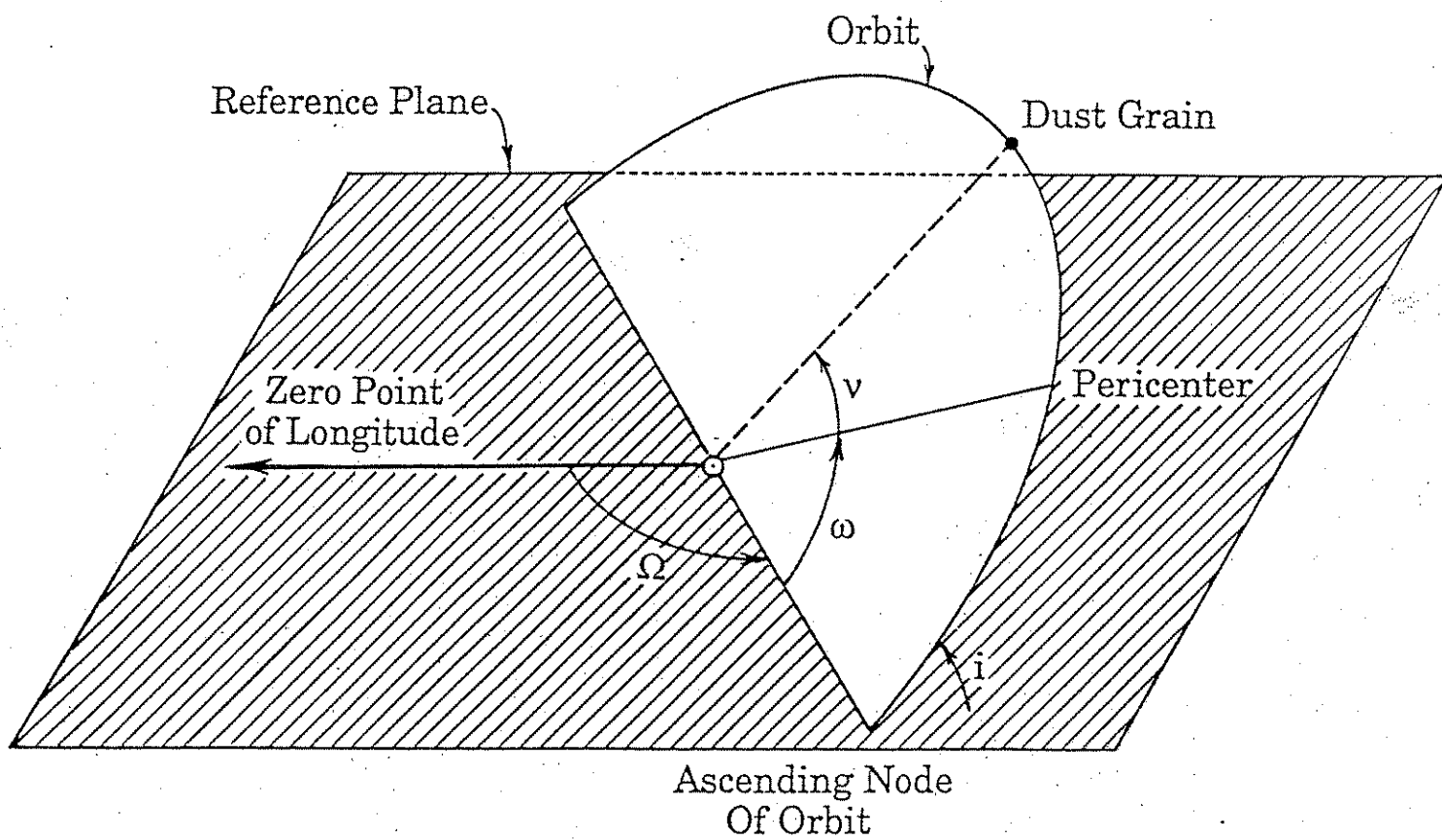


Orbital Elements

- a = semimajor axis
- e = eccentricity
- $\tilde{\omega}$ = longitude of pericenter
- ν = true anomaly



4 orbital elements define a planar orbit. 2 more define the orientation of the orbit plane in 3D.



Orbital Elements

1. a semimajor axis
 $q = a(1-e)$ pericenter distance
2. e eccentricity
3. i inclination
4. Ω longitude of the ascending node
5. $\tilde{\omega}$ longitude of pericenter
 ω argument of pericenter
6. ν true anomaly
 E eccentric anomaly
 M mean anomaly
 u argument of latitude
 l true longitude
 T time of pericenter passage

Common Sets:

$q, e, i, \Omega, \omega, \nu$

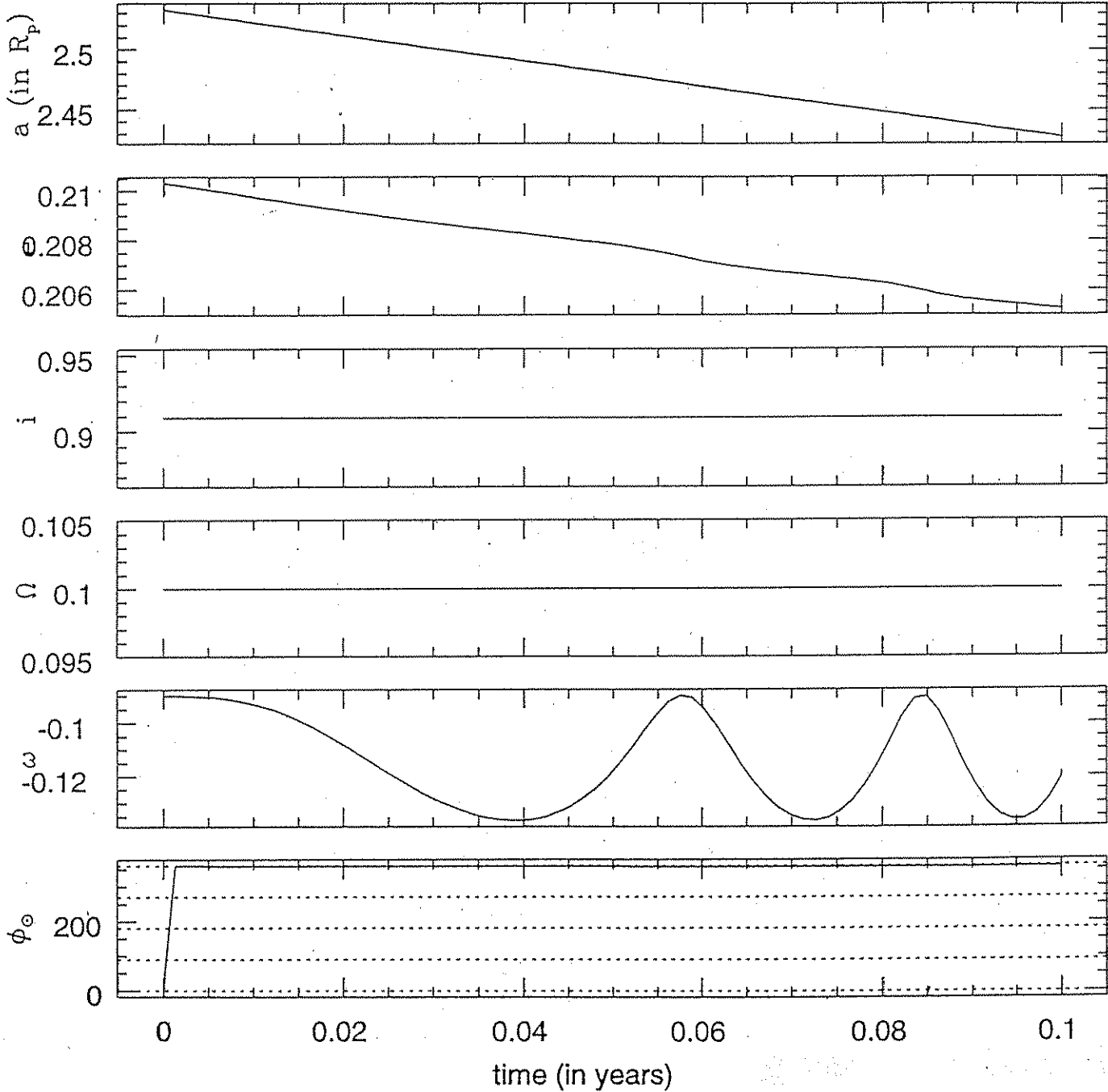
$a, e, i, \Omega, \tilde{\omega}, l$

$q, e, i, \Omega, \omega, T$

Drag Force

File: out2

Grain Size: 100 μm



a

e

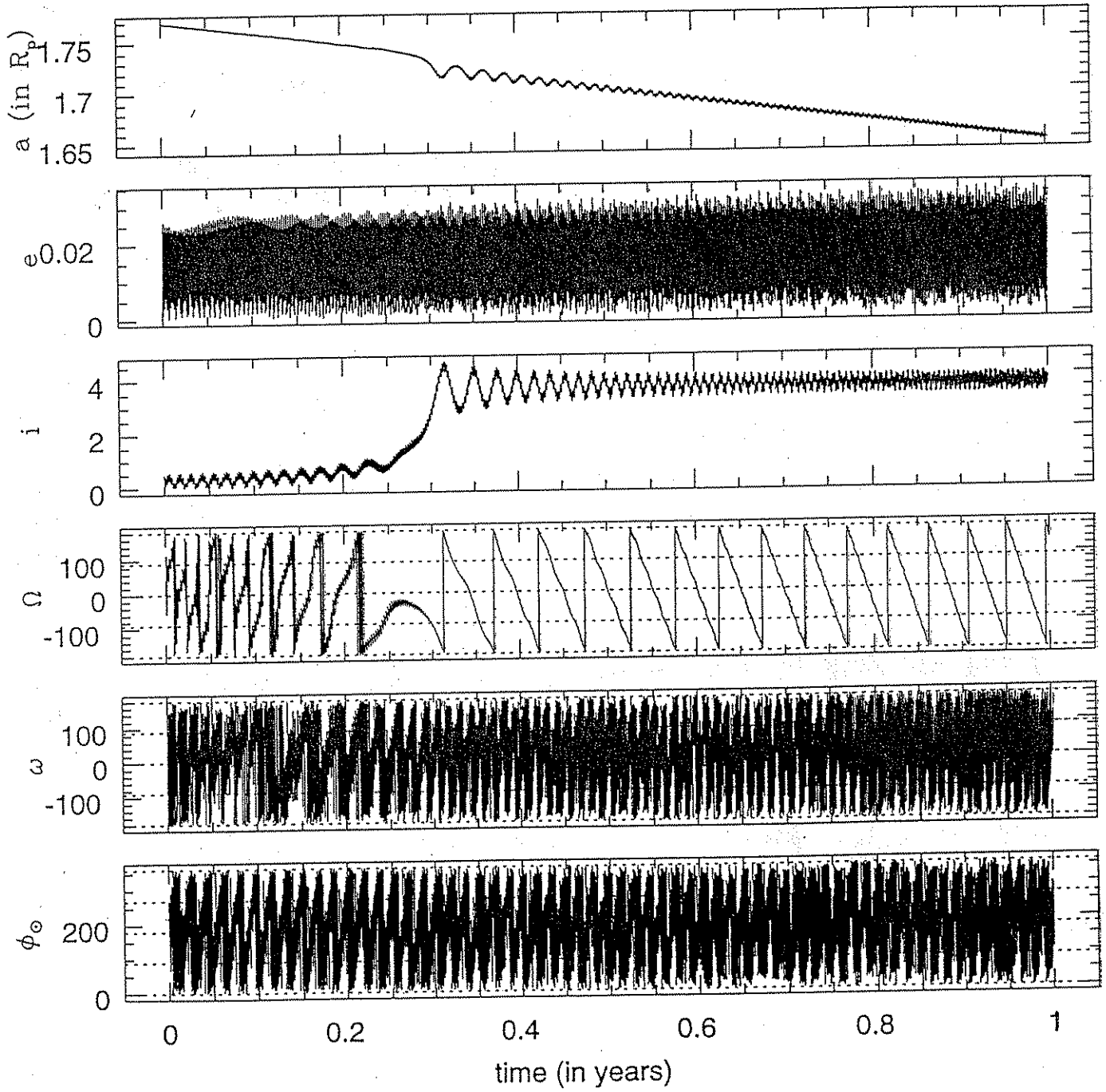
i

Ω

ω

Drag + Resonance

File: out3f Grain Size: 1 μm



a

e

i

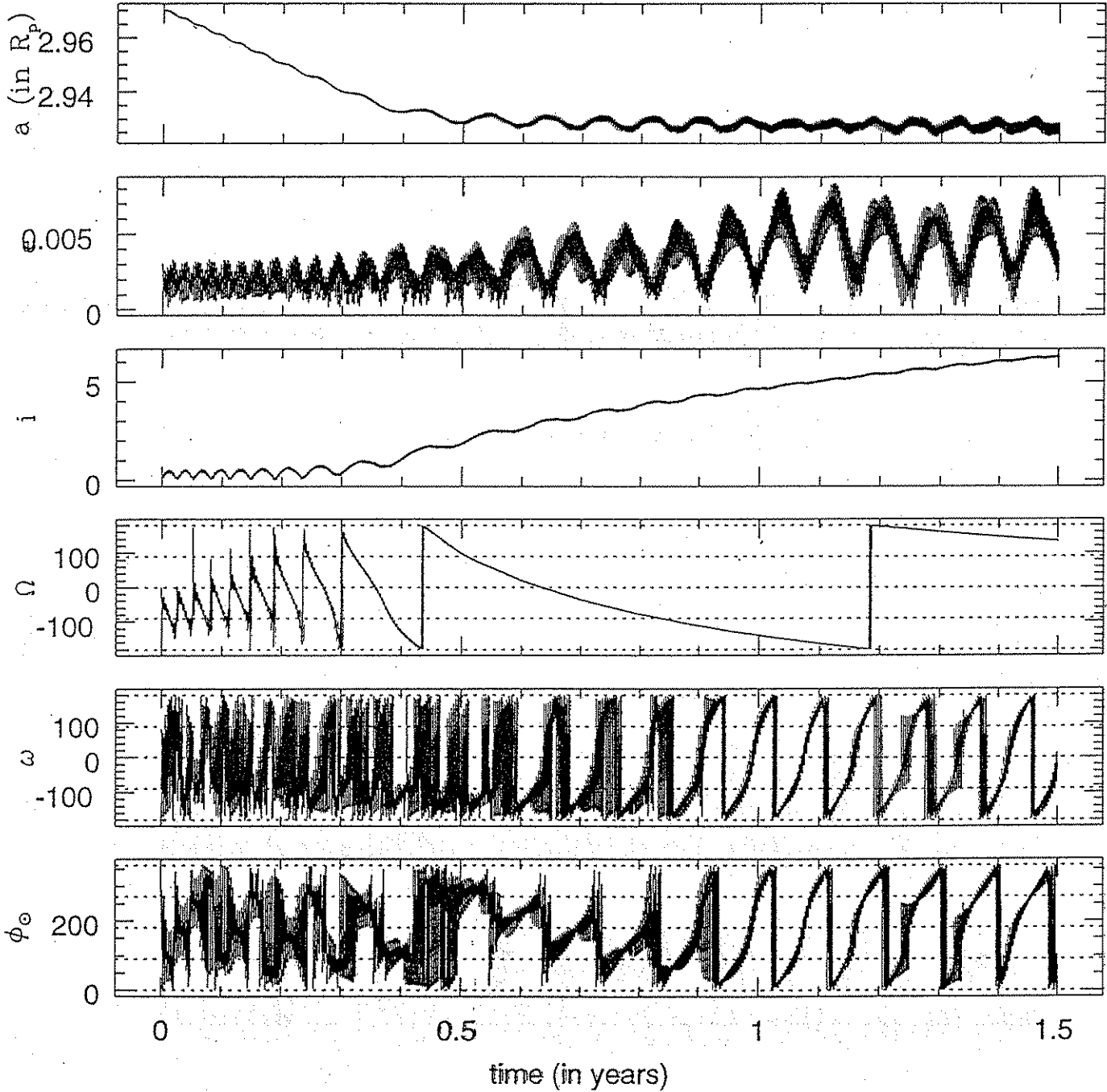
Ω

ω

Drag + Resonance

File: out3k.s

Grain Size: 1 μm



a

e

i

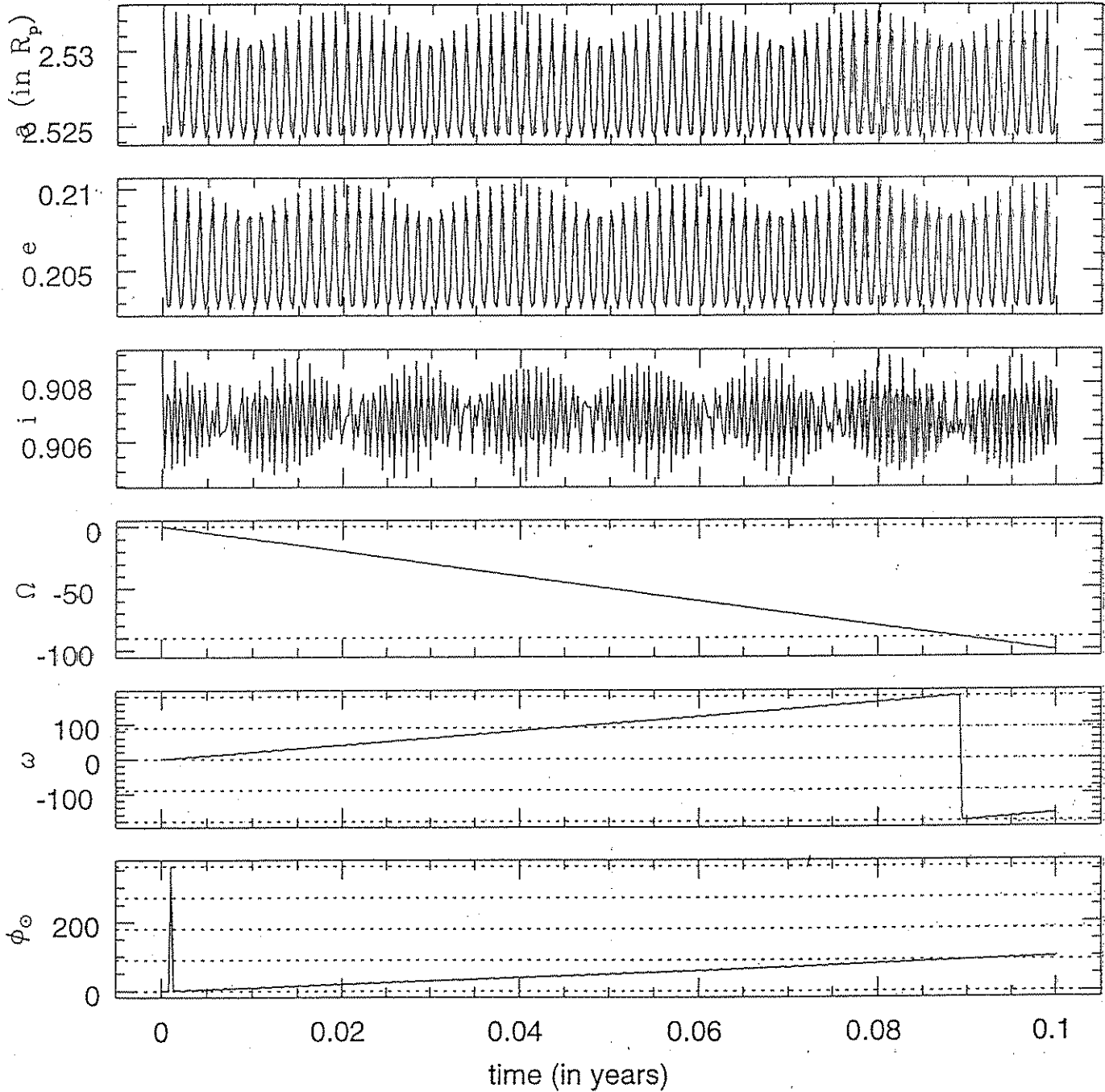
Ω

ω

Planetary Oblateness

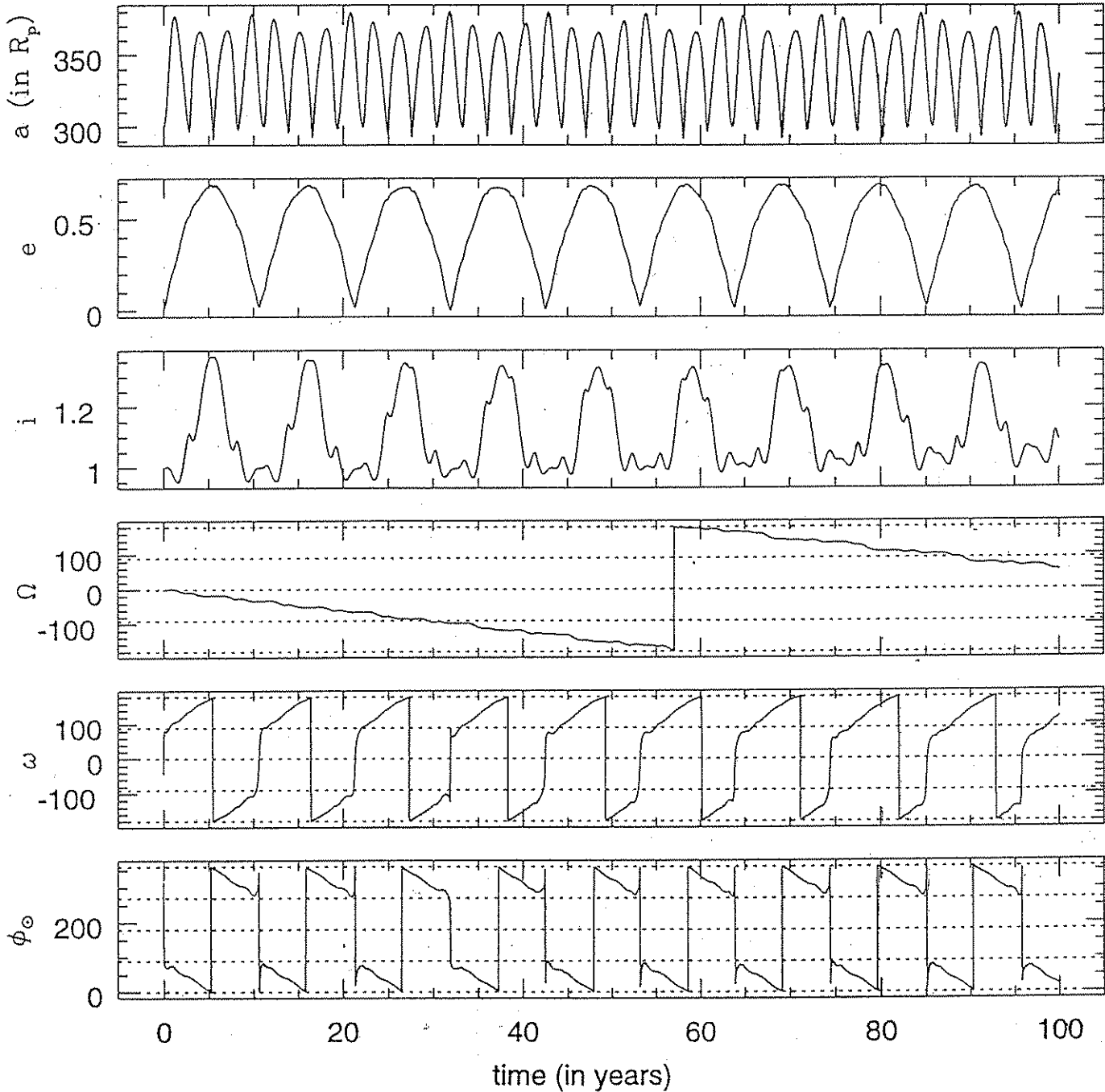
File: out4

Grain Size: 100 μm



Radiation Pressure

File: out5 Grain Size: 5 μm



a

e

i

Ω

ω