Recent Gravity Results 1"1'0111 M agellan

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Aquisition of high quality X-band Doppler data during periapsis passage began for the Magellan mission on September 24, 1992. Tracking will continue in the current three plus hour orbit with 180 km periapsis altitude until full longitude coverage is obtained near May 24, 1993. At that point Magellan will begin aero braking into a near circular polar orbit. These results represent the best available 60th degree and order gravity field with data approximately through the end of April, 1993. The resolution from the global model is substantially enhanced for such regions as Maxwell, Ovda, Bell, Artemis, and Atla when compared with previous models based upon Pioneer Venus Orbiter data only. The higher latitude regions silo\\" improved correlation with topography, but the gravity magnitudes are dependent on the a priori Kaula constraint used to determine the gravity 1i(1(1.

1. 1993 Spring Meeting

2. 000851 ('/9"

3. (ii) A. S. Konopliv
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4. 1'

5. (a) P04 Venus:Gravity/ Geophysics
(b) 5420 Grav. Fields
1219 Local Grav. Anomalies

6.

7. 0%

8. Invoice $70 to attached 1'0 #/

9. I (by Session Chair, \ \'. L. Sjogren)

10.

11. No