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IMPACT-INDUCED MELTING DURING ACCRETION OF THE EARTH

(PDF) IMPACT-INDUCED MELTING DURING ACCRETION OF THE EARTH

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Impact-induced melting during accretion of the Earth Jellie de Vries1, Francis Nimmo2, H. Jay Melosh3, Seth A. Jacobson1,4, Alessandro Morbidelli4 and David C. Rubie1* Abstract Because of the high energies involved, giant impacts that occur during planetary accretion cause large degrees of melting.

Impact-induced melting during accretion of the Earth

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Earth's interior. Dehydration melting at the top of the lower mantle. Detections of abrupt decreases in seismic velocity where downwelling mantle is inferred are consistent with partial melt below 660 kilometers. These results suggest hydration of a large region of the transition zone and that dehydration melting may act to trap H2O in the transition zone.

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