

## CD-ROM.4

Chesapeake Bay Crater: Geology and Geophysics  
of a Late Eocene Submarine Impact Structure  
By  
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## Layered 3-D Block Model Of Chesapeake Bay Impact Crater

Model constructed by VeeAnn Cross using EarthVision software. Database is a series of structure maps derived from geologic interpretation of seismic reflection profiles. Vertical scale measured in meters; horizontal scale in 20-kilometer increments.

Layer A - Inclined view of crystalline basement surface showing excavated inner basin with central peak and subpeaks surrounded by peak ring.

Layer B - Inclined view of crystalline basement surface and preimpact sediments. All crater-fill deposits removed.

Layer C - Inclined view as above with displaced megablocks and Exmore breccia added to fill crater. Note that morphological features of the basement surface are still expressed at this stratigraphic level.

Layer D - Inclined view as above with initial postimpact deposits (*dead zone* and Chickahominy Formation) added.

Layer E - Inclined view as above with postimpact sediments and modern topographic/bathymetric surface added.

F - Inclined cross section through Layer B showing sliced peak ring and two subpeaks of central peak.

