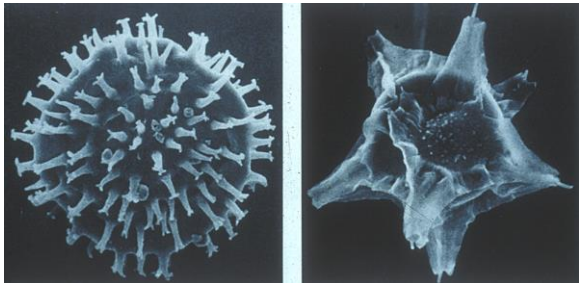
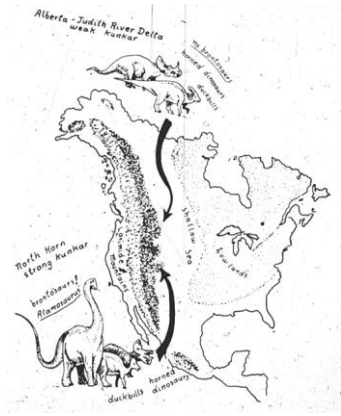


What Happened to the Dinosaurs?

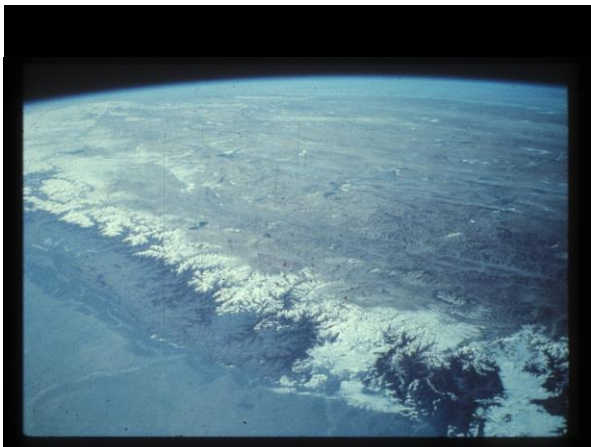
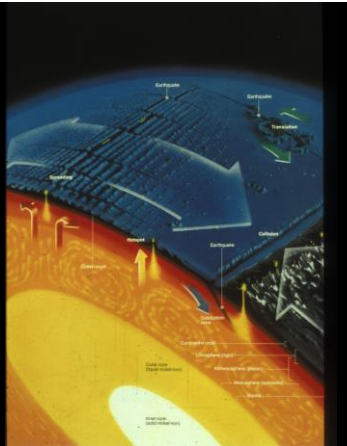


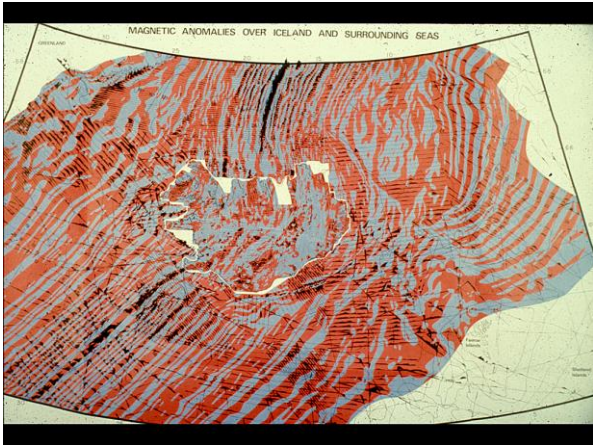
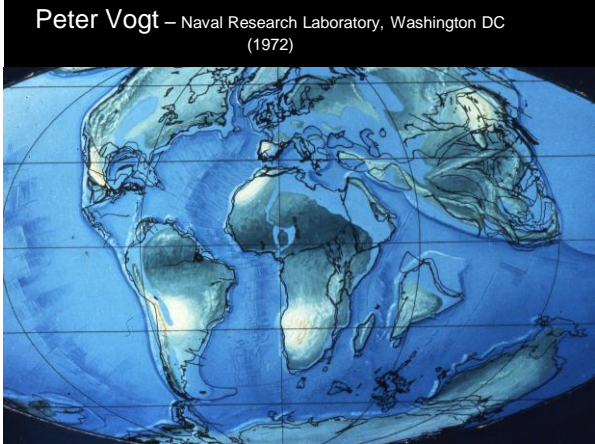


Walt Disney's view...



Plate Tectonics

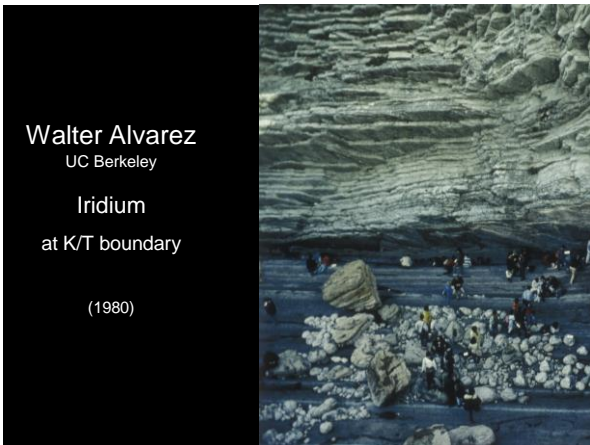






The Volcanic hypothesis asserts that:

- mass extinction occurred gradually, acting over 3.6 million years, between 68.5 – 64.9 Ma (65.01ms +/- 30,000 yrs is date for last dinosaur in Montana).
- atmosphere was gradually polluted by high level of dust, ash, and toxic gasses, including trillions of tons of sulfur and carbon dioxide dumped into atmosphere
- 480,000 cubic miles of lava flows piled up over large regions of the globe, chiefly India and the southern ocean floors
- In some places the flows reached 8000 feet thick
- Atmospheric, water pollution, acid rain degraded terrestrial environment
- deteriorating environmental conditions caused decline in population levels of many species globally
- winter temperatures progressively cooled; summers became hotter
- one by one, species died off until perhaps as many as half the world's species were gone



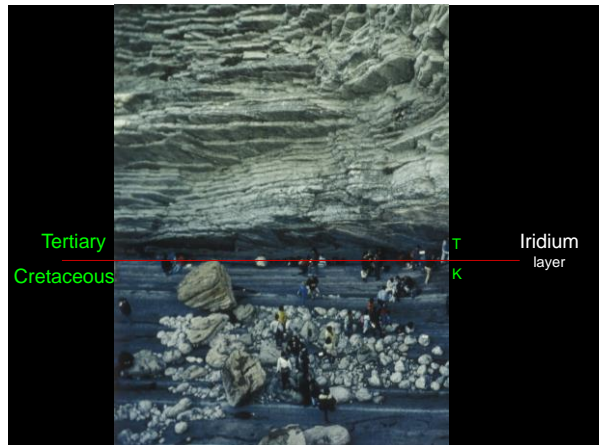
Walter Alvarez

UC Berkeley

Iridium

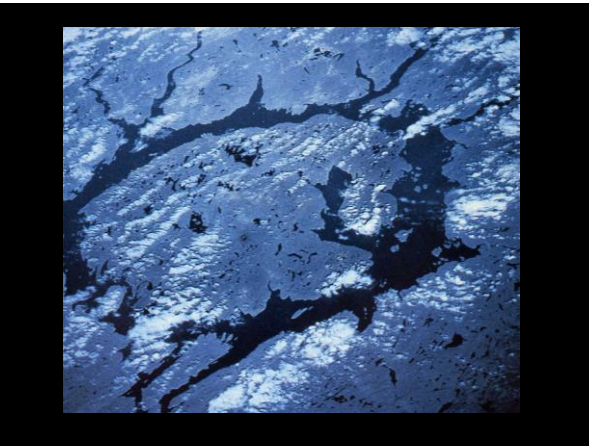
at K/T boundary

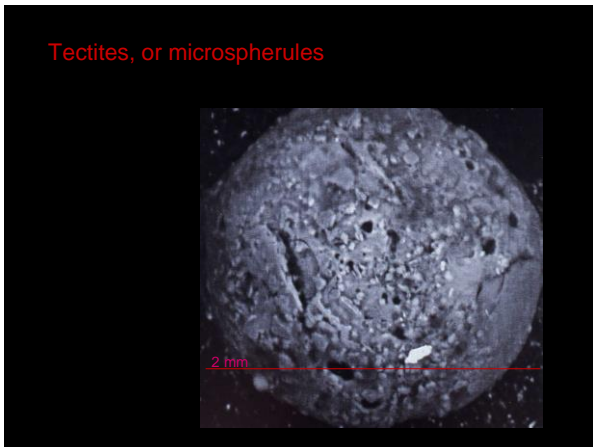
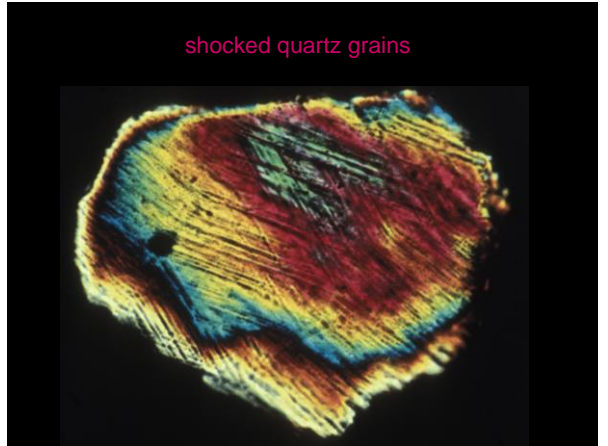
(1980)

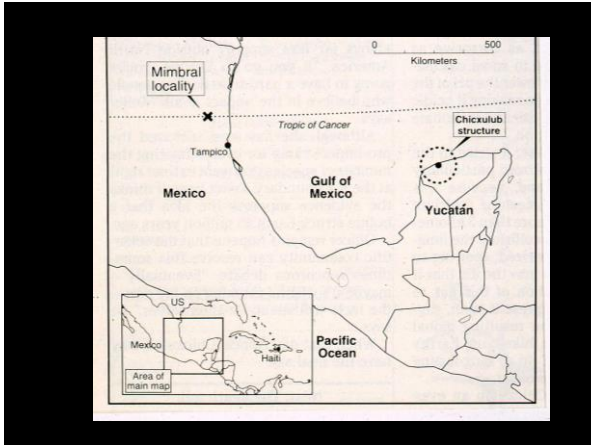




Dale Russel - NC State – Supernova(1971)

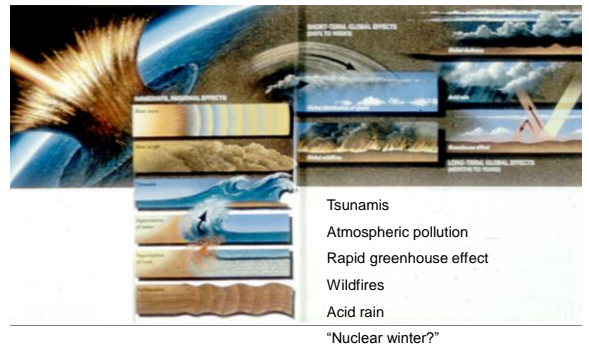


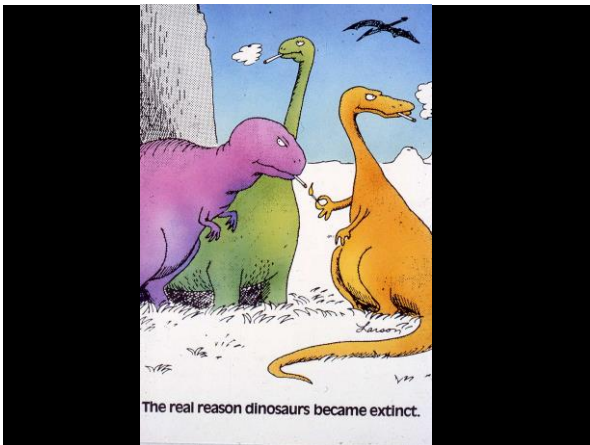




The Asteroid Hypothesis asserts that:

- mass extinction occurred instantaneously - in a few days or a few years - one generation, at 64.96 Ma \pm 26,000 years
- an asteroid of enormous proportions strikes the Earth at between 50,000 to 150,000 miles per hour
- the impact blast is more than 1 million times greater than the strongest earthquake ever recorded
- about 5000 cubic miles of debris is ejected from the crater, throwing a great dust cloud into the atmosphere
- atmosphere was instantly polluted by high level of dust, ash, and toxic gasses, including trillions of tons of sulfur and carbon dioxide dumped into atmosphere
- huge tidal waves scour across the continental margins
- wildfires incinerate the more inland regions
- atmosphere becomes so choked with debris and smoke that no sunlight penetrates to the ground
- plants died, herbivores starved, and so did the carnivores






Is either or some combination of both of these hypotheses true? There are three important criteria in testing the hypotheses:

- 1) Is there any geological evidence for the proposed mechanism?
- 2) How did the effects of that particular mechanism affect the organisms that died, and why did the survivors survive?
- 3) How well does the time-line for the proposed mechanism match the evidence in the rock and fossil record?

WEEKLY WORLD 40¢

NEWS

January 18, 1962 3087 VOL. 2 Issue 14



Psychic warns Liz:
Your new home in
Hollywood is jinxed

PAGE 3

Incredible discovery!

DINOSAURS STILL ROAM THE EARTH

Scientists find fresh tracks of 30-ton horror beast