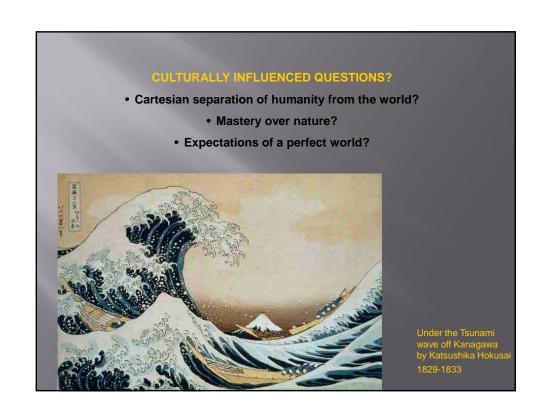




• Human disasters – technical failure, injustice, conflict • Biological suffering – aging, disease, natural selection • Physical disasters – earthquakes, floods, eruptions • Why does God allow them to happen? • Judgment on sin? • Consequences of the fall? • Is this is best of all possible worlds?



LISEON EARTHQUAKE AND TSUNAMI

The Prophecy

 1752 a nun told her confessor that there would be a terrible event on All Soul's Day

The even

- November 1st 1755.
- Estimated magnitude 9.0
- Felt in Scandinavia, Italy, north Africa,
- Tsunami reached England, W. Indies
- 70-100 thousand dead, 200 thousand homeless



Responses

- The wrath of God?
 - The sins of king Jose?
 - The millions of Indians slaughtered in the lust for gold?
 - Requital for the Inquisition (the Inquisitional Palace destroyed by fire)?
- "Like an accident in the street. God may be the ultimate cause, but that does not mean the earthquake dead had been executed on official Divine instructions" (anon.)
- · Rousseau death toll was due to the un-natural practice of living in cities
- Voltaire contra Liebniz clearly this was not the "best of all possible worlds"
- Kant developed the philosophy of the sublime (and a theory of seismology)

LISEON EARTHQUAKE AND TSUNAMI (cont.)

Reconstruction

- Martial law
- "Bury the dead and heal the living" (Sebastião José de Carvalho e Melo)
- Debris cleared in a year
- Lisbon rebuilt over 15 years, including first earthquake proof buildings in western world
- Research by Melo into details of earthquake and its consequences (beginning of scientific seismology)
- Input from visiting scholars from the Tokogawa Shogunate (despite cultural isolation of Japan)



http://www.phenomena.org.uk/lisbon.htm

http://en.wikipedia.org/wiki/1755 Lisbon earthquake#Relief and reconstruction efforts

WHAT DEFINES A NATURAL DISASTER?

- Is it a natural disaster if people are not involved?
- Tunguska meteor 1908 10-15 megatonnes, no deaths or injuries a phenomenon
- Chelyabinsk meteor 2013 0.5 megatonnes, 1200 injuries a disaster
- Perhaps we need a different terminology
- The events may be cataclysmic but necessarily disastrous



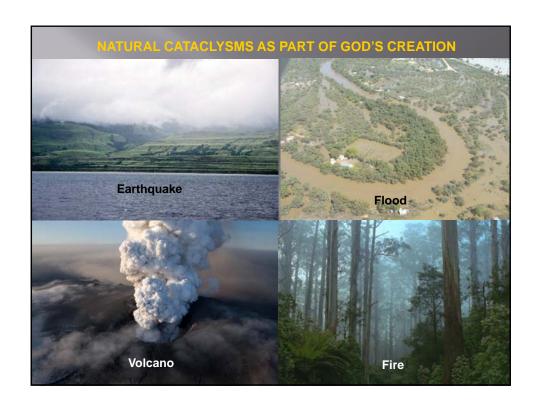


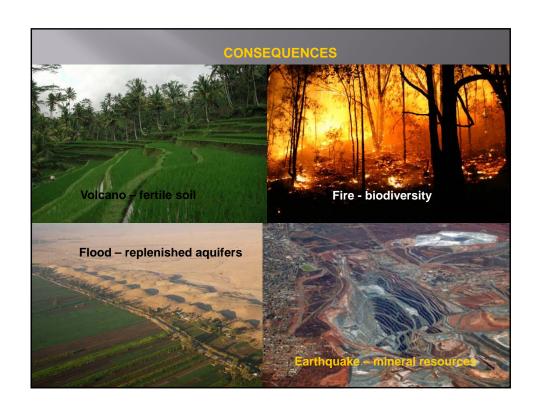
GEOLOGICAL PERSPECTIVE

- Cataclysms have always been part of the Earth's history
- They are often creative, or have creative aspects
- Good things (i.e. natural resources) come from them, things which are gifts of God's providence
- Civilisation built in active tectonic zones
- People often chose to live in these areas

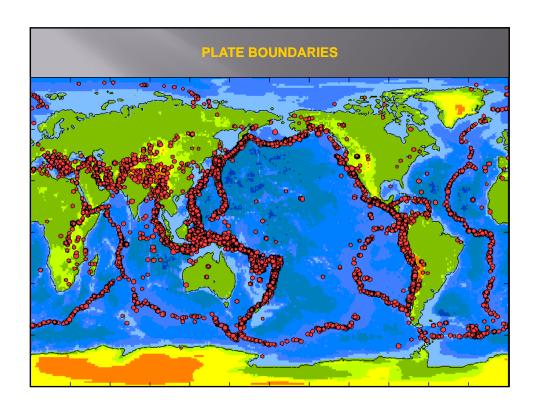


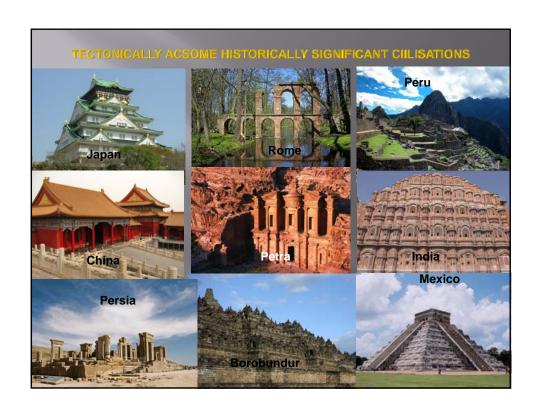


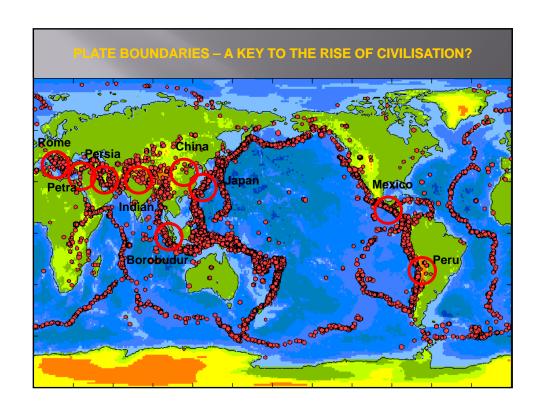


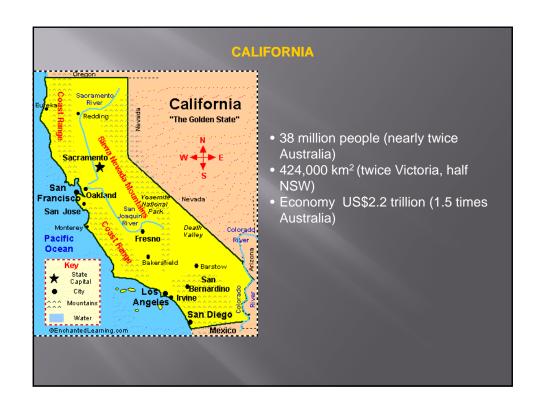






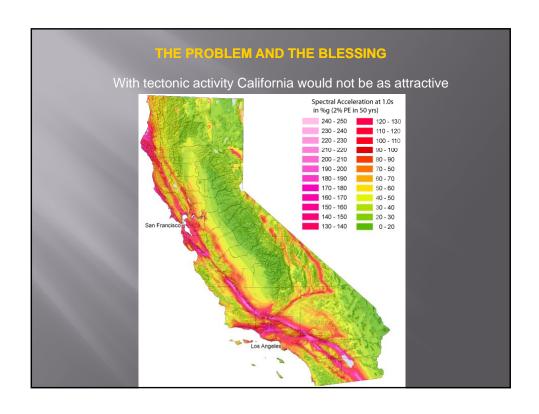


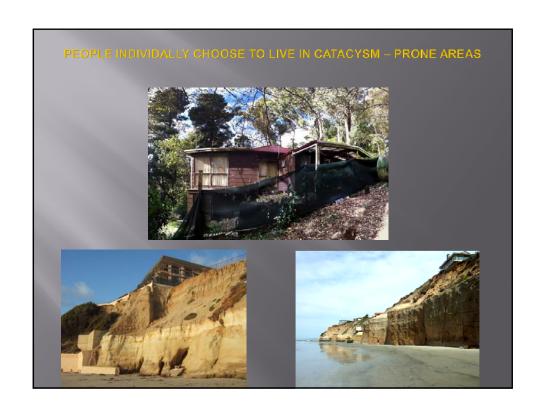


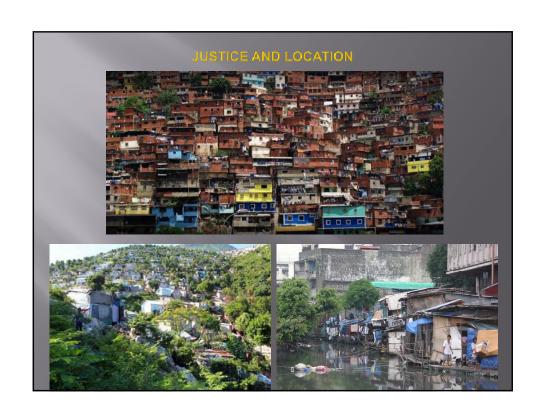


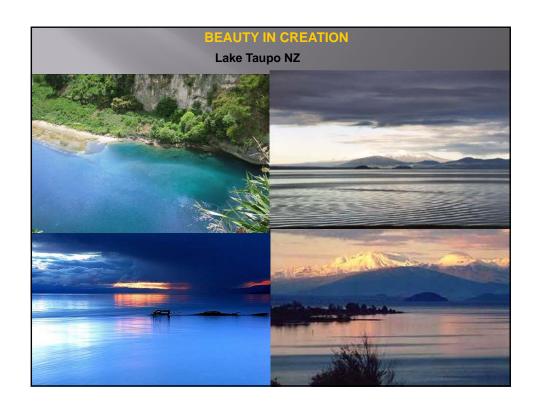


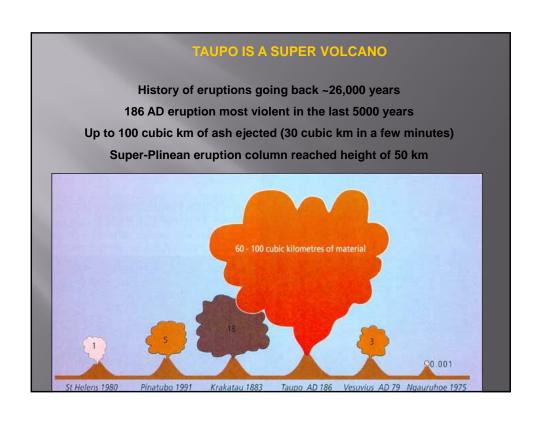


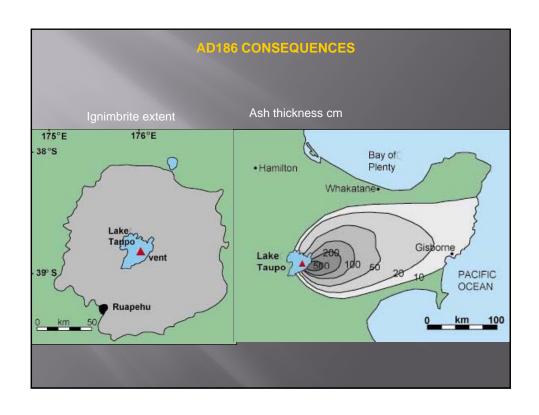


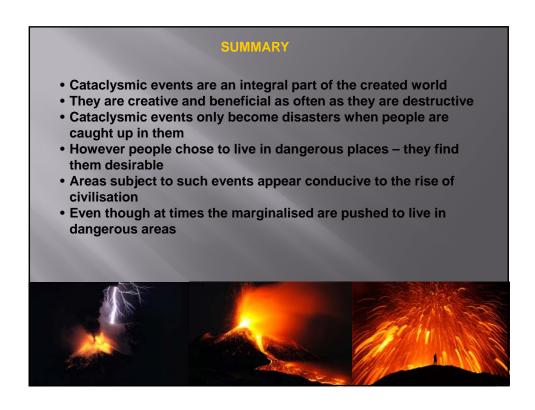


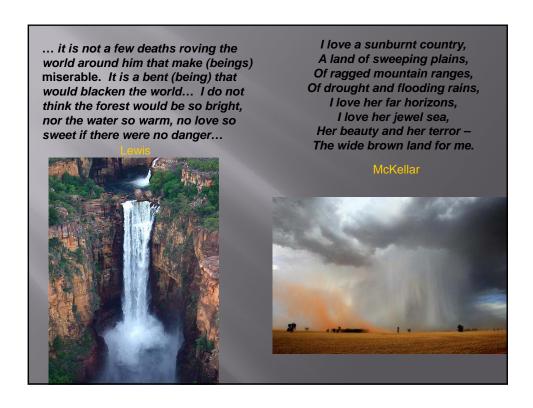














BIBLE VERSES

- Genesis 19:23-25 Fire falls on the Cities of the Plain in judgment
- Exodus 19:16-18 Storm &earthquake point to the presence of God BUT
- 1 Kings 19:11-13 God is absent from the fire and the wind and the earthquake
- Job 1:19 A storm is sent by Satan to try Job BUT
- Job 38:1 God speaks to Job out of the storm
- Job 943-49, 28-42 God subdues the sea monster (Rahab) that opposes him during creation (BUT is God worse than the monster he destroys?)
- Ps. 74:14 The many-headed sea monster (Leviathan) is crushed during creation BUT
- Job 3:8 Leviathan still lurks at the fringes of the world, possibly causing eclipses
- Joh 41:-1-34 Leviathan is one of God's creatures, awesome and sublime Ps. 104:25-26 Leviathan is one of God's creatures at play in the sea, bringing glory to God.
- Job 40:15-24 Behemoth is one of God's creatures, awesome and sublime
- Matthew 7:24-27 Building on sand (i.e. in a wadi) rather than on rock is foolishness
- Luke 13:1-7 Catastrophe may not be judgment but is always a warning

FOR DISCUSSION

- 1. Providence: if what we call natural disasters are also part of God's providence, providing us with soil, air, water, and mineral resources, how should we regard them?
- 2. Creation: If such events have been part of creation from the beginning, what does Genesis 1 mean when it talks about creation being "good"?
- 3. Judgement: Under what circumstances could we consider a natural disaster to be a judgement of God?
- 4. Randomness: If some tragedies are random what is our response?
- 5. Saian: Under what circumstances could we consider a natural disaster to be a trial sent by Satan?
- 6. Human sin as a cause of natural disasters: In what way can human sin lead to or exacerbate natural disasters?
- 7. Human responsibility: In what way goes the command to "subdue the earth" refer to preparing for and managing natural disasters? Will we one day control volcanoes?
- 8. Natural cycles: Churches pray for an end to drought or deliverance from flood. But these in Australia are the result of natural cycles. How then should we pray?
- 9. Justice: What is the just response to people to whose to live in cataclysm prone areas? What should be the response to those forced by circumstances to do so?