St Matthew's Surbiton EARTH MATTERS Lent 2021

Eco-Church: why we need it, what we can do

Presentation by Ian Christie: Senior Lecturer, Centre for Environment and Sustainability, University of Surrey; Environmental Advisor, Diocese of Southwark; Fellow, WWF-UK



Introduction: what on Earth is at stake?

PUT YOUR FAITH INT FAITH INT ACTIO

A reading from the Book of Greta Image source: DN-SE



A reading from the Book of Greta

- Speech to COP24 in Katowice, 15th December 2018:
- "You are not mature enough to tell it like it is. Even that burden you leave to your children. But I don't care about being popular. I care about climate justice and the living planet. We are about to sacrifice our civilisation for the opportunity of a very small number of people to make enormous amounts of money. We are about to sacrifice the biosphere so that rich people in countries like mine can live in luxury. But it is the sufferings of the many which pay for the luxuries of the few."
- From: Greta Thunberg, No-One Is Too Small To Make A Difference, Penguin, London, 2019

Image source: DN-SE

Archbishop Justin Welby, February 2021



Archbishop Justin Welby, February 2021

"The crises of climate change and biodiversity loss are the most grave and existential we face: as human beings, as a Church and as a global community...We are already seeing the devastating effects of climate change around the world, and we know that the poorest and most vulnerable are bearing the greatest burden. This will be a key year for the UK's approach to climate change internationally: In June, we will be hosting the G7. In November, Glasgow will host COP26. The Environment Bill will be coming to Parliament. Now is the time for bold, deliberate, collaborative action. The pandemic has foreshadowed the chaos and destruction that will follow should we not cease our exploitation of the environment, our greed for finite resources and the neglect of our interconnected nature on this precious planet. The Church is called to be a people of hope; to live in harmony with our world; to treasure God's creation and our brothers and sisters around the globe."

Cardinal Peter Turkson, 24th May 2019

Image source: Catholic World Report

Cardinal Peter Turkson, 24th May 2019

- "In recent months, young people have become increasingly explicit, as we see, for example, in the strikes for the environment. Their frustration and anger towards our generation is clear. We risk robbing them of their future, as well as "leaving to coming generations debris, desolation and filth" (Laudato Si, 161).
- "It is time to organize an intervention. As stated in *Laudato si*', "the effects of the present imbalance can only be reduced by our decisive action, here and now" (LS 161). We will all have to make a radical change in our lifestyle: the use of energy, consumption, transport, industrial production, construction, agriculture...Each of us is called to act. But we must also take action together, starting with governments and institutions, families and people: we need all hands on deck. "Everyone's talents and involvement are needed" (LS 14) to address this crisis and defeat the powerful interests that hinder our meaningful collective response to this unprecedented threat against our civilization.
- "It is right to join the scientists and the young in urging our human family, especially those who are in positions of political and economic power, to undertake drastic measures to change course. We must be "one world with a common plan" (LS 164). We need to appeal to political leaders to be far more courageous and to listen to the dramatic cry raised by the scientific community and the climate youth movement."
- <u>http://press.vatican.va/content/salastampa/en/bollettino/pubblico/</u> 2019/05/24/190524b.html
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What kind of crises do we face?

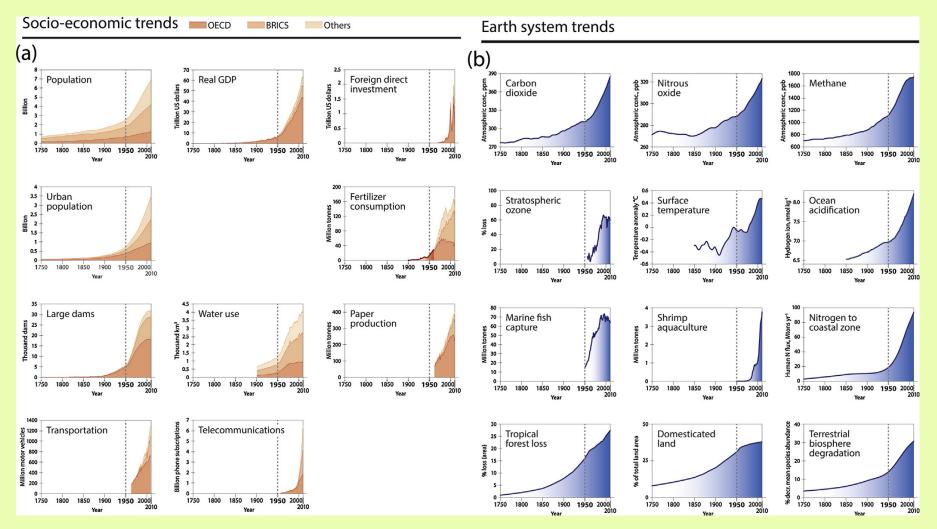
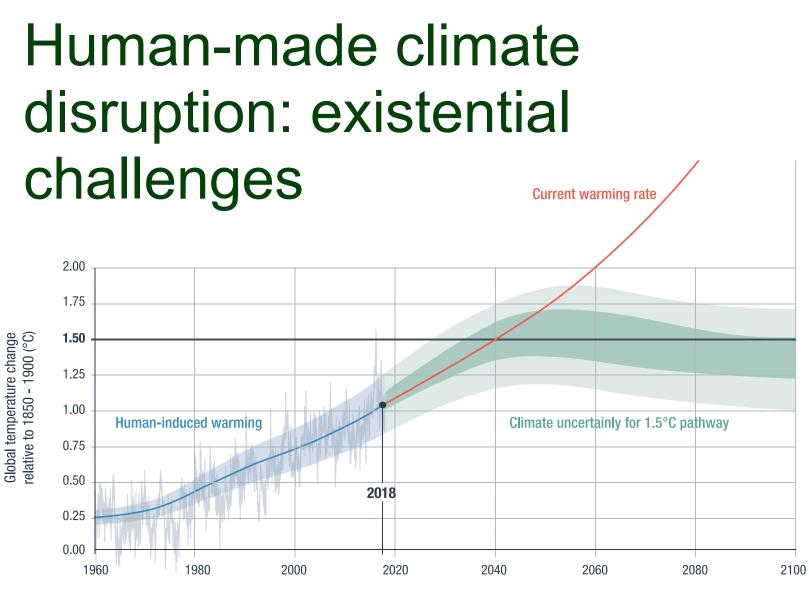


Fig. 2. (a and b) Earth system and socio-economic trends.

Source: W. Steffen, W. Broadgate, L. Deutsch, O. Gaffney and C. Ludwig (2015), 'The Trajectory of the Anthropocene: the Great Acceleration', The Anthropocene Review. 9 See also: <u>http://www.futureearth.org/blog/2015-jan-16/great-acceleration</u>



Human-induced warming reached approximately 1°C above pre-industrial levels in 2017. At the present rate, global temperature would reach 1.5°C around 2040.

Adapted from the Special Report on Global Warming of 1.5°C (IPCC)

Source: IPCC (2018)

Photo: NASA

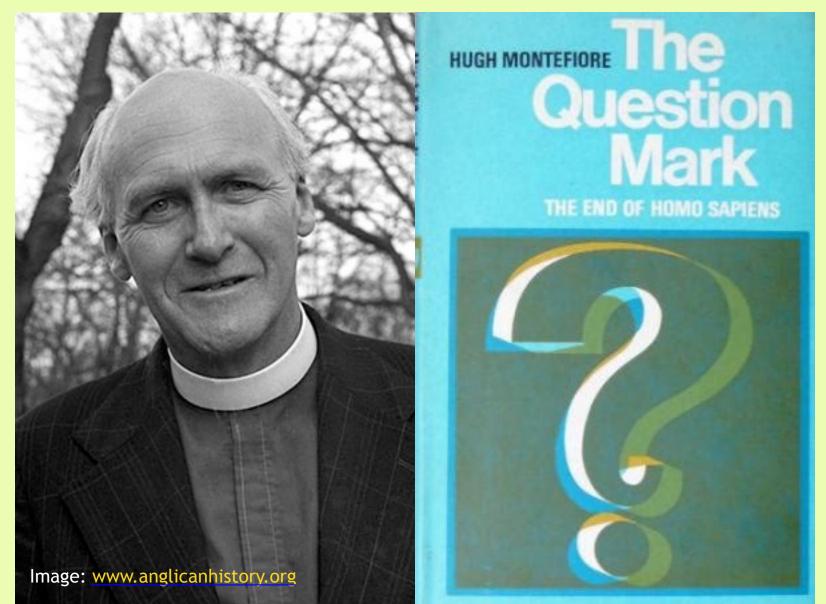
Only One Earth

ASA

Only One Earth...but in the rich world we're consuming as if we had 2-3 spare planets to live on

SPAC

Bishop Hugh Montefiore (1920-2005)



Bishop Hugh Montefiore

Hugh Montefiore in 'The Question Mark' (Collins, 1969):

HUGH MONTEFIORE

"The crisis which faces *Homo Sapiens* today is fundamentally a spiritual crisis. Until it is faced and met, the future of mankind is in doubt...Once it is believed that men hold their dominion over all nature as stewards and trustees for God, then immediately they are confronted by an inalienable duty towards and concern for their total environment, present and future; and this duty towards environment does not merely include their fellow-men, but all nature and all life."

Climate crisis, nature crisis

The Earth Transformed, 1950 to date

"The Great **Acceleration**" Population Production Consumption Pollution Urbanisation Habitat loss Species loss

Climate disruption makes other risks and environmental damage worse



CLEAN WATER

MISSING

water.

Droughts, floods, storms, soil erosion, wildfires, damage to marine life, loss of habitats and wildlife, pollution, food and water stress

Carbon inequality: emissions and emitters

Percentage of CO₂ emissions by world population

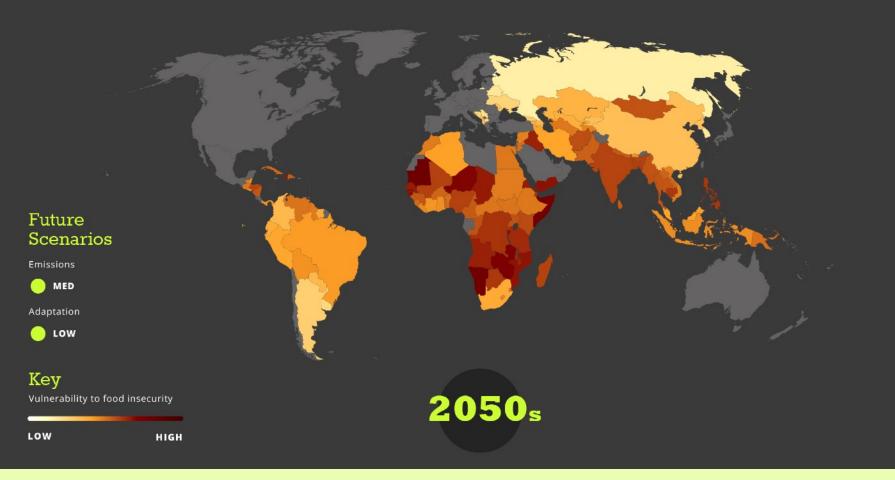
Richest 10%	49%	Richest 10% responsible for almost half of total lifestyle consumption emissions	
	19%		
	11%		
	7%		SOURCE: OXFAM
Poorest 50%	4%		
	3%		
	2.5%		Poorest 50% responsible for only around 10% of total lifestyle consumption emissions
	2%		
	1.5%		
	1%		

World population arranged by income (deciles)

Climate crisis: major risk to poorer societies



World Food Programme **Food Insecurity** *Climate Change*



Loss of biodiversity: genetic diversity, species, ecosystems



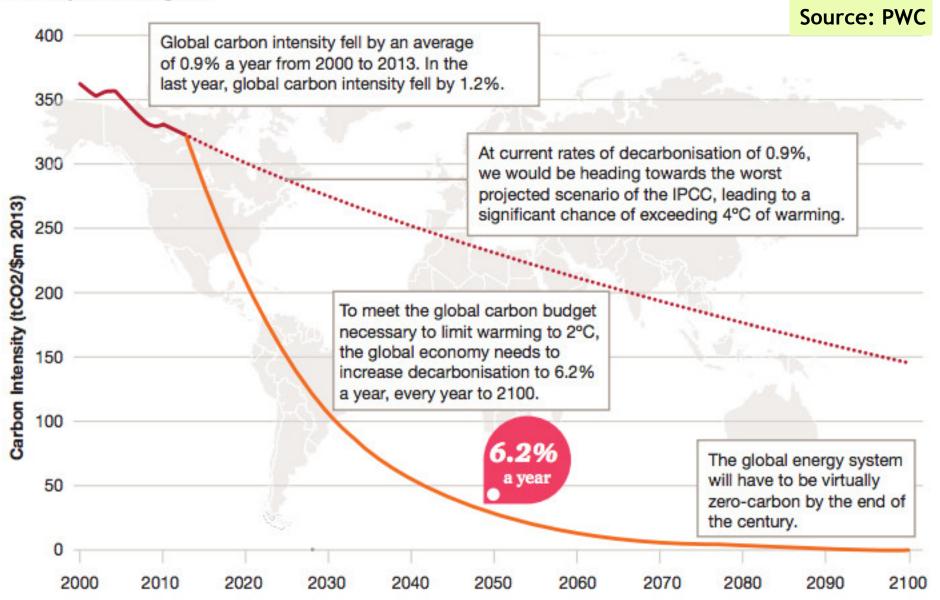
Ecosystem disruption and development

VATER, RUNNING OU

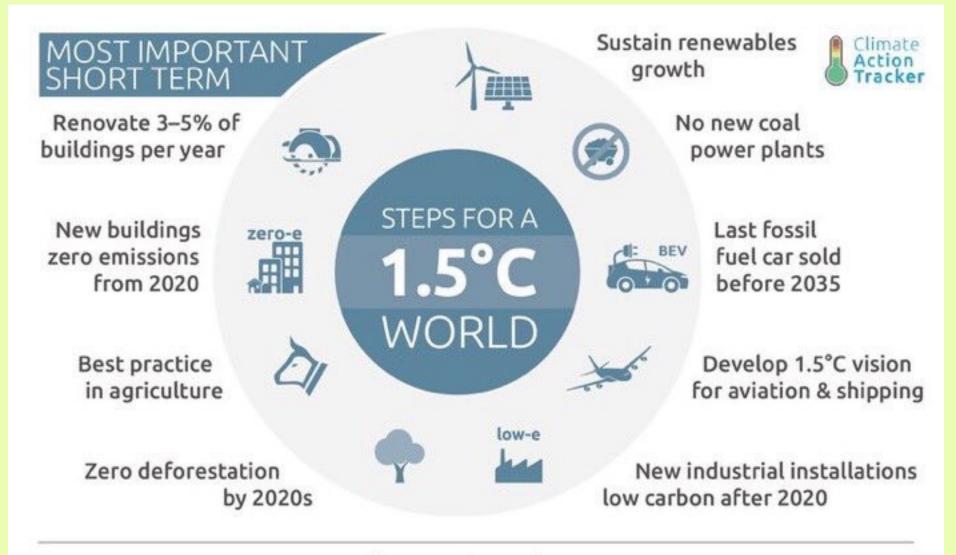
WATER PRECIOUS LIQUAD TREASURE Nazmul Chowdhury (ICCCAD): "Forget making poverty history, climate change will make poverty permanent."

A steep curve to zero-carbon energy

Pathway to two degrees



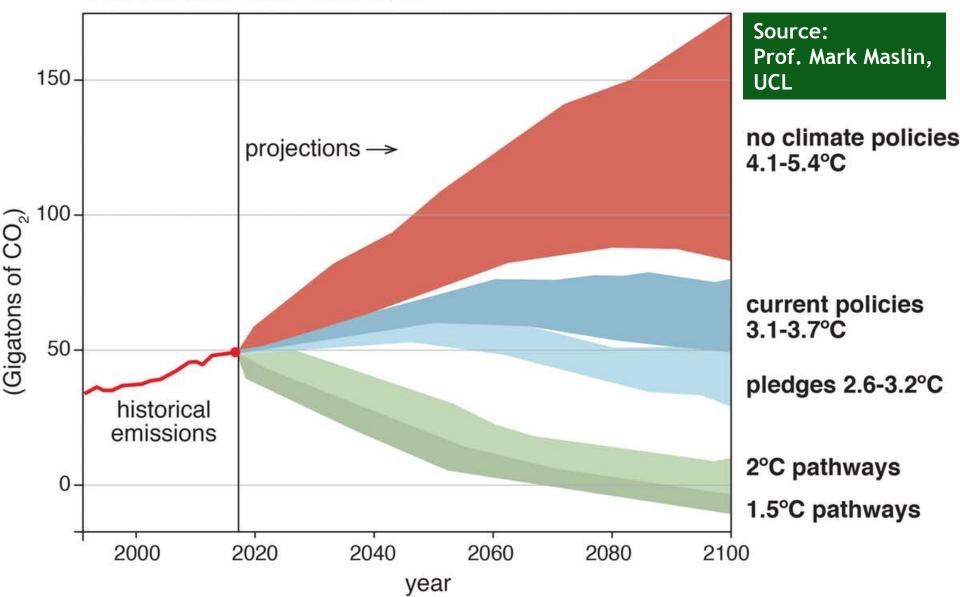
What that steep curve means



www.climateactiontracker.org

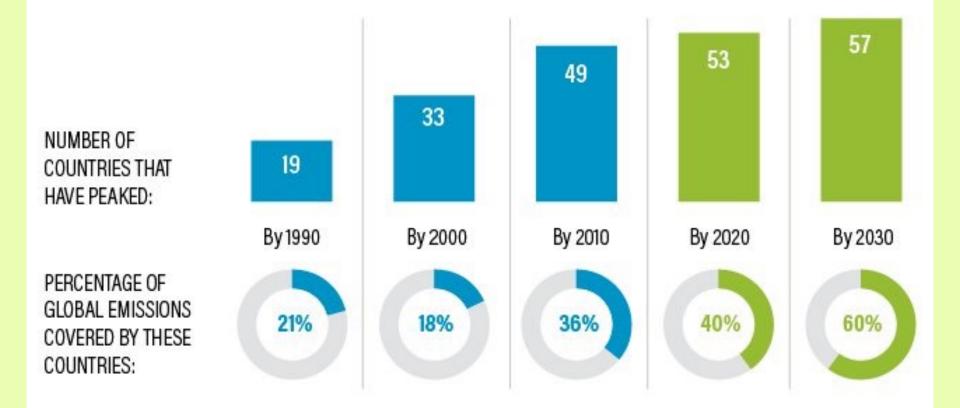
The Emissions Reduction Gap

Past and future carbon emissions



It can be done: 'peak carbon' (WRI, 2017)

Growth in Peaking of Countries' GHG Emissions Over Time



Source: wri.org/turning-points



We have the money, the technologies and the policy proposals needed to rise to the challenges



Committee on Climate Change May 2019



"a massively entertaining compendium ... also massively important" - Bill McKibben





Mike Berners-Lee

SEIZING THE GLOBAL OPPORTUNITY

PARTNERSHIPS FOR BETTER GROWTH AND A BETTER CLIMATE

The 2015 New Climate Economy Report

THE GLOBAL COMMISSION ON THE ECONOMY AND CLIMATE

Where do we stand?

- We have most of the technologies we need to make transitions to a sustainable economy...
- We have the money, evidence and knowledge...
- We have the grand global and national plans...
- What we lack so far though things are moving:
 - political willpower to invest in and make a priority of sustainable economy and ecological stewardship
 - processes to unlock investments for a sustainable future
 - a critical mass of corporations committed to genuinely sustainable production and consumption
 - a critical mass of informed and concerned citizens with voice

What on Earth are the Churches doing?

THAR FORGIVE

Strong action by the Church of England

- General Synod vote, February 2020: achievement of net-zero greenhouse gas emissions from the church's entire operations by 2030 well ahead of UK Government target date of 2050
- C of E is an international leader in pro-environmental and ethical investment policy and monitoring
- Inspiration taken from the Pope's 2015 Encyclical *Laudato Si*, and from 2019 School Strikes for the Climate
- Eco-Church initiative for congregations
- 2020 Lent Campaign focussed on climate action and care for Creation
- 2021 Tearfund report, Burning Down The House: young Christians want a lot more environmental action from the Church - and it matters to their faith. See <u>https://weare.tearfund.org/BurningDownTheHouse/?</u> <u>utm_source=Tearfund&utm_campaign=caa87e7b52-</u> <u>Burning+down+the+house+%E2%80%93+Main+%28Eng%29+</u> %E2%80%93+Feb+21&utm_medium=email&utm_term=0_3245dce5e3-<u>caa87e7b52-30526217</u>

Church initiatives

- Eco-Church: A Rocha programme for churches to get engaged in Christian action on climate and nature conservation
- 2020 Call for Action on Climate from C of E **Environment Working Group**
- C of E: now a world-leader in ethical/environmental investment strategy and tools ECO CHURCH

ROCHA UK PROJEC

- C of E: Net Zero by 2030
- Lent campaigns
- Church, multi-faith and faith/secular projects linked to Glasgow COP26 on climate, November 2021
- Engagement in Citizens' Forums on climate action

Climate: Local Action Counts

- Global deals and national plans can only be put into practice *locally*....
- ... by households, communities and organisations including churches...
- ...through investments and changes in the way we live

Christ Church West Wimbledon Eco-team in action



Eco-Church - a great resource

- Partnership: A Rocha, C of E, Tearfund, Christian Aid, Methodists
- A wonderful way to build on what you've already done in church
- Free resources
- Awards scheme
- <u>http://ecochurch.arocha.org.uk</u>





tearfund



Spending





Voices from the Windwards

"The price we get for our Fairtrade bananas is the highest since I have been in the industry. I was able to build myself a home, I was able to buy land and take care of my family and send my three children to secondary school."

Philip Andrew. Banana farmer.

ETHICALLY GROWN WINDWARD ISLANDS BANANAS

- Do an audit of church spending and what gets wasted...
- How can we purchase better?
 Fair trade, local food, recycled goods - and using less energy and water and car/plane trips
- Can we invest in Green energy, maybe with others in diocese?
- Can we use the CofE Parish Buying scheme and Green Energy Tariffs?
- What will we do with the savings?

What can we do?

- Eco-Church and similar non-faith schemes
- Talk to family, friends, neighbours, colleagues about climate and Nature and why it matters to you
- Write to your MP and councillors
- Write again to your MP and councillors
- Do not despair
- Focus on things you can do easily...
- And on a *few* things that are hard...diet and travel changes
- Make changes in concert with others





In my church (first year in Eco-Church)

- Weekly Green Prayer in service sheet
- Climate and Nature crisis appear most weeks in the intercession prayers
- Creationtide photo and art display and reflection spaces in church
- High energy efficiency in refurbished hall
- 2 community eco-festivals held
- Guest speakers eg Southwark DEO
- Lent Carbon Fast
- Small group discussion series on creation care



In my church

For since the creation of the world, God's invisible qualities - his eternal power and divine nature - have been clearly seen, being understood from what has been made, so that people are without excuse. Romans 1 v 20

The people will rise to the challenge. And since our leaders are behaving like children, we will have to take the responsibility they should have taken long ago. Greta Thunberg at UN Climate Conference, Poland, 2018









The land produced vegetation: plants bearing seed according to their kinds and trees bearing fruit with seed in it according to their kinds. And God

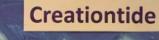
Creationtide

saw that it was good. Genesis 1 v 12





GARDEN BIRD



Do one thing together

• Take up or keep going with Eco-Church



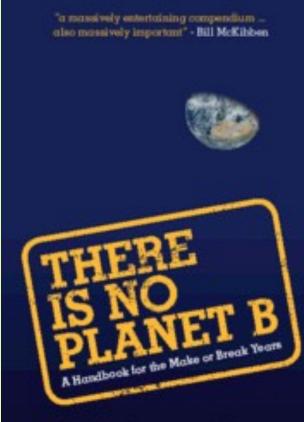
Do one thing yourself

- If you're a meat/fish-eater, try going vegetarian for 3 days a week
- If you're a vegetarian, try going vegan 3 days a week
- If you're a vegan, try Oat Milk!



Read one thing

- "All the pathways of this book seem to be converging inescapably on values. It turns out to be the crunch point. I haven't manipulated it that way. In fact, if I could have avoided a values discussion, the book would have been easier to write."
- Source: Mike Berners-Lee (2021), There Is No Planet B, Cambridge University Press, Cambridge
- <u>https://www.cambridge.org/core/</u> <u>books/there-is-no-planet-b/</u> <u>1C152963CE739459C346D76B439A0272</u>



Mike Berners-Lee

Research resources on environmental crises and action

- University of Surrey and partners: Centre for the Understanding of Sustainable Prosperity (CUSP). See <u>www.cusp.ac.uk</u>
- University of Surrey and partners: RESOLVE and Sustainable Lifestyles Research Group - sustainable energy consumption, behaviour change, lifestyles. See <u>http://www.sustainablelifestyles.ac.uk</u>
- The Yale Forum on Religion and Ecology. See http://fore.yale.edu
- The John Ray Initiative on Christianity, ecology and science. See http://www.jri.org.uk/introduction/
- University of Sussex / Institute of Development Studies: STEPS integrating development studies with science and technology assessment. See <u>http://www.steps-centre.org/index.html</u>
- Stockholm University, Stockholm Resilience Centre and planetary boundaries programme. See http://www.stockholmresilience.org/
- **Future Earth** programmes on research for global sustainability. Future Earth is a global platform for international scientific collaboration, with a 'federation' of projects and other initiatives related to Global Environmental Change. See http://www.futureearth.org/

Worth reading: Faiths and Ecology

- Bell, C et al (eds) (2013), Living Lightly, Living Faithfully: religious faiths and the future of sustainability, Faraday Inst./KLICE : Cambridge
- Deane-Drummond, C et al (eds.)(2017), *Religion in the Anthropocene*, Cascade Books, Eugene
- Evans, A & Gower, R (2015), The Restorative Economy, Tearfund: London
- Grim, J & Tucker, ME (2014), *Ecology and Religion*, Island Press: Washington DC
- Maibach, E., Leiserowitz, A., Roser-Renouf, C., Myers, T., Rosenthal, S. & Feinberg, G. (2015), *The Francis Effect: How Pope Francis Changed the Conversation about Global Warming*, George Mason University and Yale University. Fairfax, VA: George Mason University Center for Climate Change Communication
- Northcott, M (2014), A Political Theology of Climate Change, SPCK: London
- Pope Francis I (2015), Encyclical Letter: Laudato Si', Vatican Press: Rome
- UNEP, Faith for Earth, UNEP Science Division, 2018: <u>https://</u> <u>www.unenvironment.org/resources/publication/faith-earth-foresight-brief-</u> <u>no-008</u>
- White, L (1967), "The historical roots of our ecological crisis", Science 155 (3767), pp. 1203-1207

Worth watching: films on SD/environment

- The End of the Line (fisheries and sustainability)
- Into Eternity (nuclear waste and ethics of our relationship to people in the far future)
- •*Manufactured Landscapes* (the transformation of the Earth by industry especially in China)
- •Home (Earth from the air)
- •*Humanity* (the diversity of peoples and the challenges of the 21st century)
- •No Impact Man (an American family tries to live sustainably)
- The Overview Effect (the impact of seeing the Earth from space)
- •*Planetary* (becoming aware of the fragility of the Earth and the values needed to sustain it for us and future people)

Thank you for your interest

- <u>i.christie@surrey.ac.uk</u>
- www.cusp.ac.uk
- www.surrey.ac.uk/ces

Photo: conference on church action on climate change, Coventry Cathedral, September 2015

