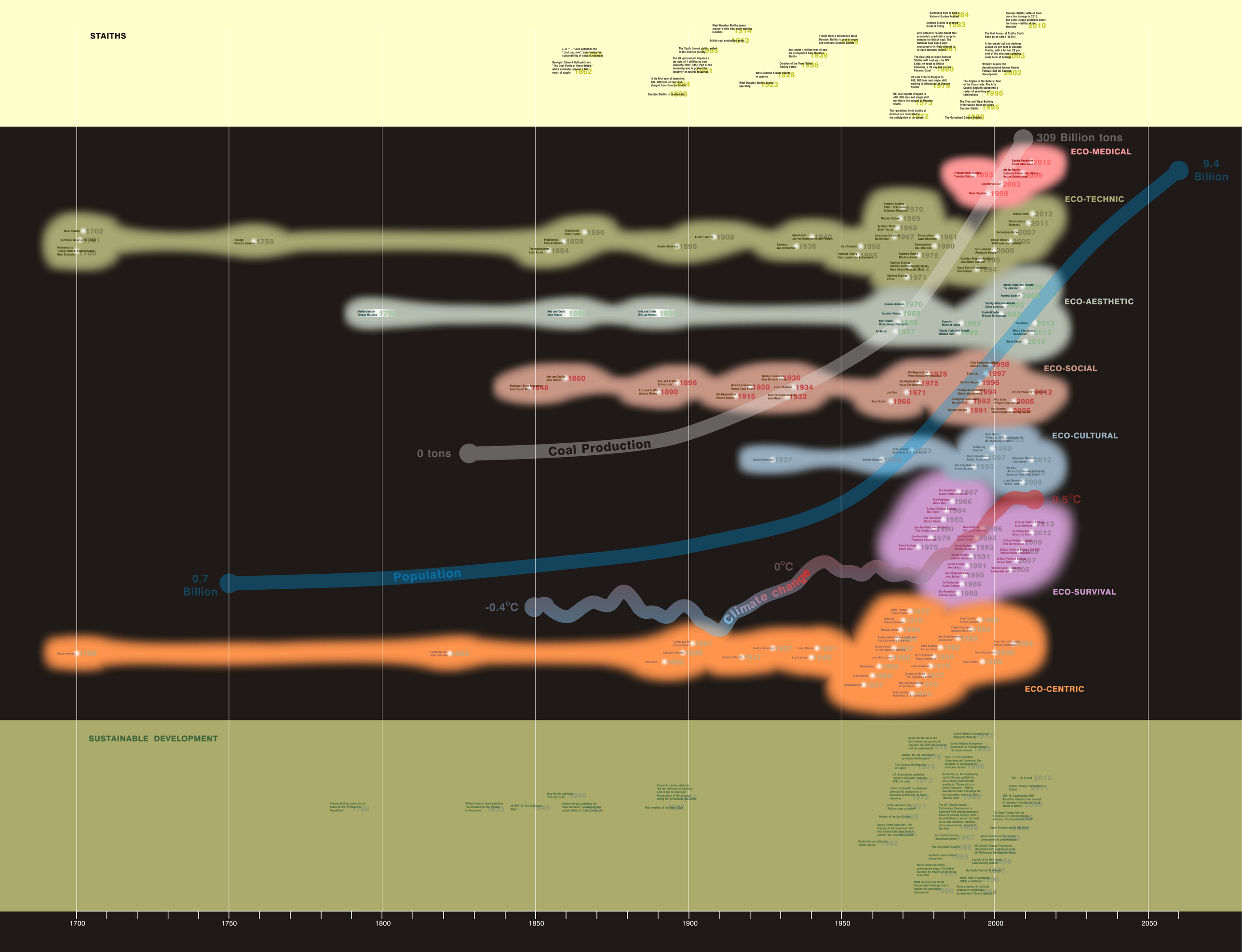
STAITHS
Geologist Edward Hull publishes "The Coal-Fields of Great Britain" which estimates around 1,400 years of supply 1862
The South (inner) staiths added to the Dunston facility 1913
The UK government imposes a tax duty of 1 shilling on coal (Dautmon 2007: 215). Part of the reasoning was to protect the longevity of natural resources 1921
In its first year of operation, 684, 000 tons of coal was shipped from Dunston Staiths 1924
Dunston Staiths is completed 1893
West Dunston Staiths opens around a mile west from existing facilities 1919
British coal production peaks 1913
West Dunston Staiths begins operating 1923
West Dunston Staiths ceases to operate 1928
Creation of the Team Valley Trading Estate 1936
Just under 4 million tons of coal are transported from Dunston Staiths 1939
Timber from a dismantled West Dunston Staiths is used to repair and renovate Dunston Staiths 1979
Civil unrest in Poland meant that economists predicted a surge in demand for British coal. The National Coal Board were unsuccessful in their attempt to re-open Dunston Staiths 1981
The final ship to leave Dunston Staiths with coal was the MV Linda, en route to British Columbia, a 33 day trip via the Panama Canal 1980
UK coal exports dropped to 400, 000 tons and single shift working is introduced at Dunston Staiths 1979
UK coal exports dropped to 400, 000 tons and single shift working is introduced at Dunston Staiths 1973
The remaining North staiths at Dunston are removed in the anticipation of an upturn 1972
Gateshead bids to hold a National Garden Festival 1984
Dunston Staiths is granted Grade II listing 1983
The Gateshead Garden Festival 1980
The first homes at Staiths South Bank go on sale (1st Oct) 2002
A fire breaks out and destroys around 20 per cent of Dunston Staiths, with a further 20 per cent of the structure suffering some form of damage 2003
Wimpey acquire the decontaminated former Garden Festival Site for housing development 2002
The Region in the Gallery: Year of the Visual arts: The Arts Council England sponsored a series of year-long arts celebrations 1996
The Tyne and Wear Building Preservation Trust are given Dunston Staiths 1995
Dunston Staiths suffered from more fire damage in 2010. The event raised questions about the future viability of the structure 2010
Isaac Newton 1702
Gottfried Wilhelm von Leibniz
Mechanistists Thomas Hobbes / Francois Rabelais René Descartes 1700
Ecology Carolus Linnaeus 1758
Evolutionist Ernst Haeckel 1866
Evolutionist Charles Darwin 1859
Thermodynamics Lord Kelvin 1854
Svante Arrhenius 1896
Albert Einstein 1908
Cybernetics Jon von Neumann/Norbert Wiener 1940
Bauhaus Walter Gropius 1936
Ilya Prigogine 1956
Systems Theory Karl Ludwig von Bertalanffy 1955
Systems Ecology 1970 - 1974 Radical Software Magazine 1970
Michael Polanyi 1969
Systems Theory Bucky Fuller 1968
Landscape Urbanism Ian McHarg 1967
Permaculture David Holmgren 1981
Permaculture Bill Mollison 1980
Systems Theory Niklas Luhmann 1975
Systems Ecology Gregory Bateson/Gunjan Karki, Hans Haacke/Margaret Mead 1972
Systems Ecology Pulsa 1971
Transpersonal Ecology Theodore Roszak 1993
Double Pendulum Faisal Abdu'Allah 2012
Art for Health Elizabeth Fairna / Fay Nunn Health Organisation 2009
Christopher Day 2003
David Pearson 1998
Imagine 2020 2012
Permaculture Mosstma 2011
Greenhouse Britain 2007
Tiffany Holmes "1000 oaks and counting" 2005
The Hannisons "Peninsula Europe" 2000
Complex Adaptive Systems John Henry Holland 1995
Ocean Earth Development Corporation 1994
Steady State/Anti-Growth Tim Jackson 2009
Richard Sennett 2008
Steady State/Anti-Growth Serge Latouche 2003
Cradle2Cradle William McDonough 2002
Tim Ingold 2013
Marco Casagrande "Sandworm" 2012
Sacha Kagan 2010
Malthusianism Thomas Malthus 1790
Arts and Crafts John Ruskin 1860
Arts and Crafts William Morris 1890
Giovanni Anselmo 1970
Giuseppe Penone 1969
Arte Povera Michelangelo Pistoletto 1968
Im Spazio 1967
Scarcity Nicholas Xenos 1989
Steady State/Anti-Growth Herman Daly 1988
Stationary State Economy John Stuart Mill 1848
Arts and Crafts Ruskin 1860
Arts and Crafts Octavia Hill 1896
Arts and Crafts William Morris 1890
Welfare Economics John Maynard Keynes 1930
Welfare Economics Arthur Cecil Pigou 1920
Lewis Mumford 1934
Bio-Regionalism Patrick Geddes 1915
Civic Environmentalism John Dewey 1932
Bio-Regionalism Peter Berg/Kenneth Dahlberg 1978
Bio-Regionalism Allen Van Newkirk 1975
Jan Gehl 1971
Jane Jacobs 1966
Civic Environmentalism Harlen T. Rubin 1998
Superflex 1997
Kathryn Miller 1995
Ecological Footprinting Mathis Wackernagel 1994
Ecological Footprinting William Rees 1992
Buster Simpson 1991
Citizen Power Petition 2012
Rick Lowe "Project Row Houses" 2006
Nils Norman "Ideal City/Research Pavilion" 2005
Martin Heidegger 1927
Deep Ecology Arne Naess, E. F. Schumacher 1973
Murray Bookchin 1963
David Haley "River Life 2000 - a plan for the beginning of time" 2003
Debutaring Tony Fry 1999
Khaj International Artistic Association 1997
Wolfgang Wylegala "Still House" 2012
Anti-Essentialism Antonio Escobar 1993
Wu Mei "Art as Environment: A Cultural Action on Plum Tree Island" 2010
Jackie Brookner "Urban Rain" 2009
Eco-Feminism Gloria Frome Orenstein 1987
Eco-Feminism Mana Mies 1986
Critical Political Ecology Nic Sarra 1984
Eco-Socialism Rudolf Bahro 1983
Eco-Feminism Ana Mendieta "The Silueta Series" 1980
Eco-Feminism Françoise d'Eaubonne 1979
Social Ecology André Gorz 1975
Neo-Luddism Cecilia Gleinhammer 1996
Eco-Socialism Kevin Pepper 1994
Social Ecology Murray Bookchin 1993
Social Ecology Murray Bookchin 1991
Social Ecology Janet Biehl 1991
Anarchoprimitivism Jonn Zerzan 1990
Co-Production Elinor Ostrom 1989
Eco-Feminism Vandana Shiva 1988
Critical Political Ecology Elsie Mansion 2013
Co-Production Maurizio Forte 2012
Critical Political Ecology Eric Swyngedouw 2009
Critical Political Ecology and Radical Nature Feminism 2010
Critical Political Ecology Salma Zizka 2007
"Beyond Green: Toward a Sustainable Art" 2005
Banuch Spinoza 1700
Landscape Art John Constable 1822
Landscape Art Claude Monet 1901
Ernesnzar Howard 1898
John Muir 1892
Georgia O'Keeffe 1917
Martin Heidegger 1927
Isamu Noguchi 1941
Aldo Leopold 1940
James Turrell "Roden Crater" 1972
Land Art Robert Smithson 1970
Michael Heizer 1969
Performative Environmental Art The Earthworks Exhibition
Richard Long "A Line Made by Walking" 1967
Lynn White Junior 1966
Minimalism 1962
Alan Sonfist 1960
Conceptualism 1957
Deep Ecology Arne Naess, E. F. Schumacher
Deep Ecology Gordon Bateson
Fragile Ecologies Bonanza McKinney 1952
Non-Anthropocentric Joanna Macy 1988
Deep Ecology Fritjof Capra 1982
Betty Beaumont "Ocean Landmark" 1980
James Lovelock 1979
Walter de Maria "The Lightning Field" 1977
Non-Anthropocentric Peter Singer 1975
Land Art: A Cultural Ecology Handbook 1974
Andy Goldsworthy 1990
Agnes Denes 1985
309 Billion tons
ECO-MEDICAL
9.4 Billion
ECO-TECHNIC
ECO-AESTHETIC
ECO-SOCIAL
ECO-CULTURAL
0 tons
Coal Production
Population
0.7 Billion
0.5°C
0°C
-0.4°C
Climate change
ECO-SURVIVAL
ECO-CENTRIC
SUSTAINABLE DEVELOPMENT
Thomas Malthus publishes an essay on the "Principle of Population" 1789
William Forster Lloyd publishes Two Lectures on the "Checks to Population" 1833
JS Mill "On The Stationary State" 1848
John Ruskin publishes "Unto the Last" 1860
Stanley Jevons publishes the "Coal Question", questioning the sustainability of natural resources
Svante Arrhenius publishes "On the Influence of Carbonic Acid in the Air Upon the Temperature of the Ground", noting the greenhouse gas effect
First meeting of the Sierra Club
Rachel Carson publishes "Silent Spring" 1962
Garret Hardin publishes "The Tragedy of the Commons" AND Paul Ehrlich with Anne Ehrlich publish "The Population Bomb"
Friends of the Earth forms
OECD advocates the "Polluter pays principle"
"Limits to Growth" is published showing the implications of continued growth has on finite resources
E.F. Schumacher publishes "Small is Beautiful" AND the OPEC oil crisis
The Cocoyoc Declaration is signed
Habitat, the UN Conference on Human Settlements
OECD Directorate of the Environment relaunches its research that links the economy and the environment
United Nations Conventions on Biological Diversity
United Nations Framework Convention on Climate Change / The Earth Summit 1992
Elinor Ostrom publishes "Governing the Commons: The Evolution of Institutions for Collective Action"
David Pearce, Anil Markandya and Ed Barbier publish the best-selling environmental manifesto, "Blueprint for a Green Economy", AND Dr. Karl-Henrik Robert develops the four principles known as The "Natural Step"
The G7 Toronto Summit - Sustainable Development is endorsed AND Intergovernmental Panel on Climate Change (IPCC) is established to assess the most up-to-date scientific, technical and socioeconomic research in the field
Our Common Future, (Brundtland Report)
The Chernobyl Disaster
Antarctic ozone hole is discovered
World Health Assembly unanimously adopts the Global Strategy for Health for All by the Year 2000
IUCN launches the World Conservation Strategy with a section on sustainable development
World Summit on Sustainable Development in Johannesburg
EU Climate Change Programme established AND publication of the UN Millennium Development Goals
Launch of the Dow Jones Sustainability Indexes
The Kyoto Protocol is adopted
World Trade Organization (WTO) established
China prepares its national strategy on sustainable development: China's Agenda 21
Rio + 20 is held 2012
Climate change negotiations in Durban
COP 15: Copenhagen AND Scientists introduce the concept of "planetary boundaries" in an article in Nature
The Stern Review into the Economics of Climate Change / Al Gore's "An Inconvenient Truth"
Kyoto Protocol enters into force
1700
1750
1800
1850
1900
1950
2000
2050