

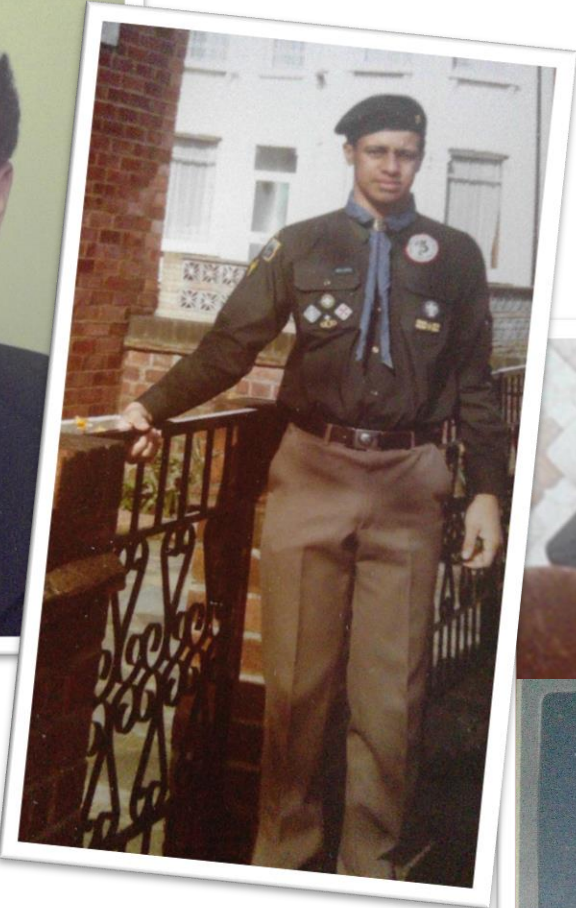
Youth Data – Past, Present and Future

Vernon Gayle, Roxanne Connelly and Christopher Playford

vernon.gayle@ed.ac.uk

@profbigvern

- **YCS** **Gayle, V.**, Berridge, D. and Davies, R., 2000. Young People's Routes to Higher Education: Exploring Social Processes with Longitudinal Data. *Higher Education Review*, 33(1), pp.47-64.
- **YCS** **Gayle, V.**, Murray, S. and Connelly, R., 2016. Young people and school General Certificate of Secondary Education attainment: Looking for the 'missing middle'. *British Journal of Sociology of Education*, 37(3), pp.350-370.
- **NCDS & BCS** Connelly, R. and **Gayle, V.**, 2019. An investigation of social class inequalities in general cognitive ability in two British birth cohorts. *The British journal of sociology*, 70(1), pp.90-108.
- **MCS** Connelly, R. and **Gayle, V.**, 2017. An investigation of the consistency of parental occupational information in UK Birth Records and a National Social Survey. *European Sociological Review*, 33(2), pp.240-256.
- **BYP** **Gayle, V.** 2005. Youth Transitions in Ermisch, J.F., Wright, R.E. and Wright, R. eds., *Changing Scotland: Evidence from the British household panel survey*. Policy Press.
- **BHPS** Ralston, K. and **Gayle, V.**, 2017. Exploring 'generations' and 'cultures' of worklessness in Contemporary Britain. *Youth & Policy*.
- **BHPS & UKHLS** Stopforth, S., **Gayle, V.** and Boeren, E., 2020. Parental social class and school GCSE outcomes: two decades of evidence from UK household panel surveys. *Contemporary Social Science*, pp.1-16.
- **SLS & Admin** **Gayle, V.**, Playford, C.J. and Connelly, R., 2020. Social class inequalities in Scottish school qualifications. *Contemporary Social Science*, pp.1-15.
- **Twenty-07 Study** Brown, D., Benzeval, M., **Gayle, V.**, Macintyre, S., O'Reilly, D. and Leyland, A.H., 2012. Childhood residential mobility and health in late adolescence and adulthood: findings from the West of Scotland Twenty-07 Study. *J Epidemiol Community Health*, 66(10), pp.942-950.



```
> ata\stata13\bhps_w18\ryouth.dta"
```

```
(Contains the responses to the Young persons' questionnaire)
```

```
. codebook, compact
```

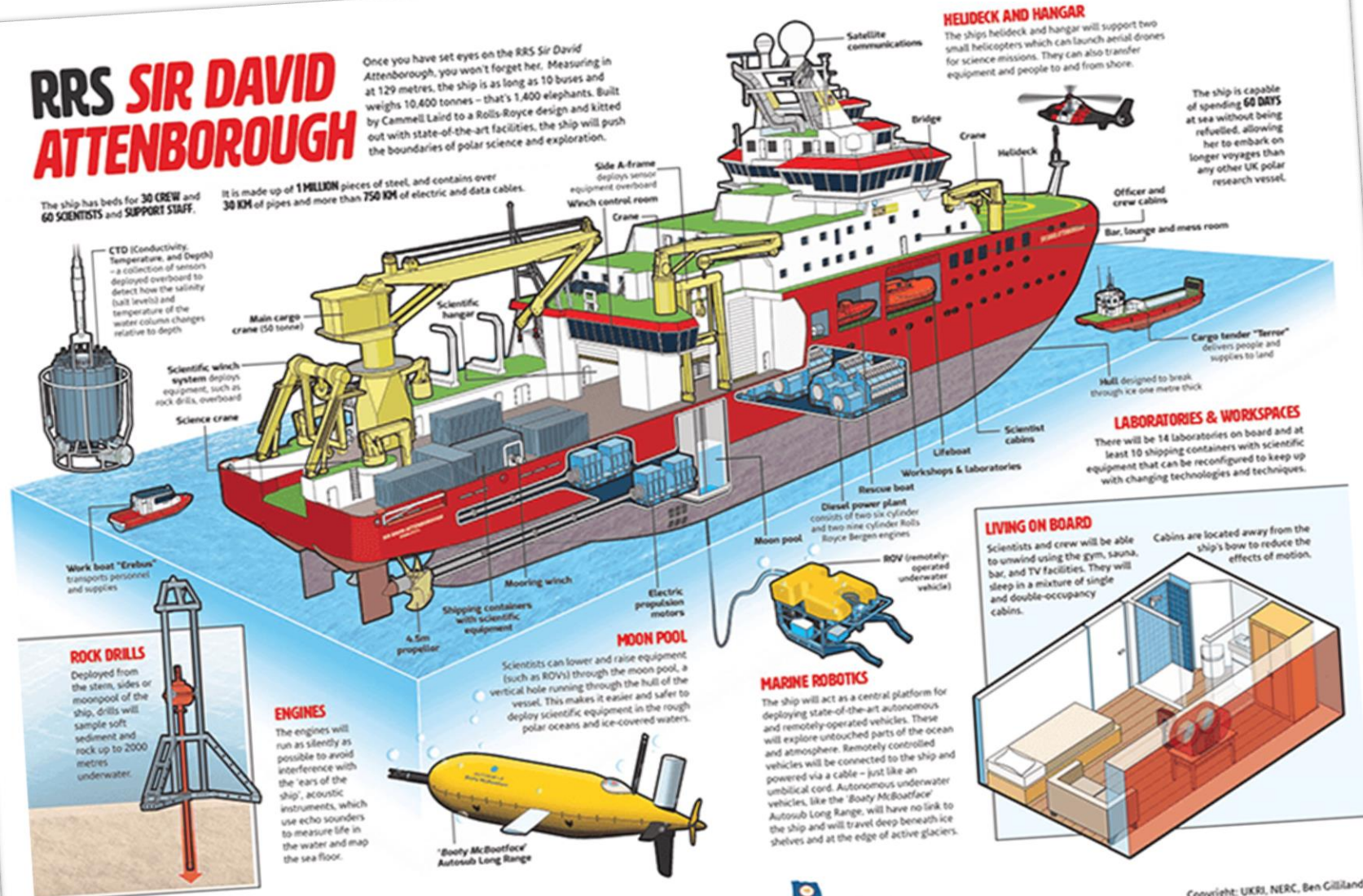
Variable	Obs	Unique	Mean	Min	Max	Label
rhid	1222	984	1.84e+07	1.80e+07	1.89e+07	household identification number
rpno	1222	9	3.389525	1	9	person number
rypdoby4	1222	6	1994.917	1992	1997	date of birth: year
rypsex	1222	2	1.481178	1	2	gender of youth
rytvhrs	1222	6	1.986907	-9	4	hours spent watching tv on a school day?
rytvstp	1222	5	1.386252	-9	3	parents stop you watching a programme ?
rypfclub	1222	6	2.810966	-9	4	how often: go to youthclubs etc
rypfdisc	1222	6	3.698854	-9	4	how often: go to nightclubs
rypfspor	1222	6	1.717676	-9	4	how often: do sports
rypchor	1222	6	1.711129	-9	4	time spent doing/helping with housework
rypcomp	1222	6	1.037643	-9	3	do you ever use a computer at home ?
ryppchw	1222	7	1.525368	-9	5	how often use pc for home/course work
ryppcg	1222	9	1.672668	-9	5	how often play games on the computer
ryppcnt	1222	8	1.042553	-9	5	how often use pc for net/send e-mail
rypmobu	1222	4	1.043372	-9	2	have own mobile phone?
ryppals	1222	6	1.780687	-9	4	times had friends round to your house ?
ryppalo	1222	6	2.409984	-9	4	how often out with friends

RRS SIR DAVID ATTENBOROUGH

The ship has beds for **30 CREW** and **60 SCIENTISTS** and **SUPPORT STAFF**.

It is made up of **1 MILLION** pieces of steel, and contains over **30 KM** of pipes and more than **750 KM** of electric and data cables.

Once you have set eyes on the RRS Sir David Attenborough, you won't forget her. Measuring in at 129 metres, the ship is as long as 10 buses and weighs 10,400 tonnes – that's 1,400 elephants. Built by Cammell Laird to a Rolls-Royce design and kitted out with state-of-the-art facilities, the ship will push the boundaries of polar science and exploration.



HELIDECK AND HANGAR

The ship's helideck and hangar will support two small helicopters which can launch aerial drones for science missions. They can also transfer equipment and people to and from shore.

The ship is capable of spending **60 DAYS** at sea without being refuelled, allowing her to embark on longer voyages than any other UK polar research vessel.

LABORATORIES & WORKSPACES

There will be 14 laboratories on board and at least 10 shipping containers with scientific equipment that can be reconfigured to keep up with changing technologies and techniques.

LIVING ON BOARD

Scientists and crew will be able to unwind using the gym, sauna, bar, and TV facilities. They will sleep in a mixture of single and double-occupancy cabins.

Cabins are located away from the ship's bow to reduce the effects of motion.

MARINE ROBOTICS

The ship will act as a central platform for deploying state-of-the-art autonomous and remotely-operated vehicles. These will explore untouched parts of the ocean and atmosphere. Remotely controlled vehicles will be connected to the ship and powered via a cable – just like an umbilical cord. Autonomous underwater vehicles, like the 'Boaty McBoatface' Autosub Long Range, will have no link to the ship and will travel deep beneath ice shelves and at the edge of active glaciers.

MOON POOL

Scientists can lower and raise equipment (such as ROVs) through the moon pool, a vertical hole running through the hull of the vessel. This makes it easier and safer to deploy scientific equipment in the rough polar oceans and ice-covered waters.

ENGINES

The engines will run as silently as possible to avoid interference with the 'ears' of the ship, acoustic instruments, which use echo sounders to measure life in the water and map the sea floor.

ROCK DRILLS

Deployed from the stern, sides or moonpool of the ship, drills will sample soft sediment and rock up to 2000 metres underwater.

NERC SCIENCE OF THE ENVIRONMENT

UK Research and Innovation

British Antarctic Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

CAMMELL LAIRD

Copyright: UKRI, NERC, Ben Gilliland



Photo: https://www.123rf.com/photo_36977380_union-jack-flag-uk-map.html



Photo: <https://www.tremark.co.uk/uk-flag-map/>



UK Birth Cohorts

National Survey
of Health and
Development

ncds
National Child
Development Study

BCS70
1970 British
Cohort Study

1946

1958

1970

UK Birth Cohorts

National Survey
of Health and
Development

1946

ncds
National Child
Development Study

1958

BCS70
1970 British
Cohort Study

1970

??
**Thatcher
Cohort**

1982

??

**THE NATIONAL
LOTTERY™**

1994

First Crisis

BCS70
1970 British
Cohort Study

1970

Millennium Cohort Study

CHILD OF THE
NEW CENTURY 

2000/2

Bridging the Gap

BCS70
1970 British
Cohort Study

**NEXT
STEPS**
LEARNING FROM YOUR GENERATION



Understanding Society
THE UK HOUSEHOLD LONGITUDINAL STUDY

Millennium Cohort Study

CHILD OF THE
NEW CENTURY ★

1986

Youth Cohort Study of
England and Wales

1989

-

2007

2005/6

2009

-

LSYPE 2

2017/8

2015

Bridging the Gap

BCS70
1970 British
Cohort Study

Millennium Cohort Study

CHILD OF THE
NEW CENTURY 

1986

Scottish Young
Peoples Survey /
Scottish School
Leavers Survey



1986

-

2001

2009

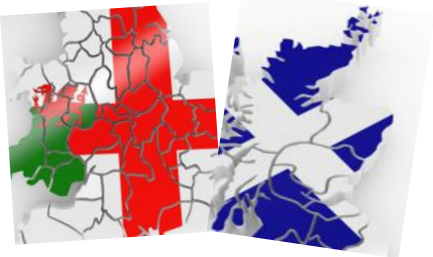
-

2017/8

ESRC Research Project on Education and Youth Transitions in England, Wales and Scotland, 1984-2002 (R00239852)



Croxford et al.
Harmonised Data



1986

1986 - 2001

Millennium Cohort Study

CHILD OF THE
NEW CENTURY 

2017/8

2009 -

Second Crisis

Millennium Cohort Study

CHILD OF THE
NEW CENTURY 

2000/2

2016

~~LIFE
STUDY~~

2014
(Discontinued 2016)

Second Crisis

Millennium Cohort Study

CHILD OF THE
NEW CENTURY 

2000/2

**Growing Up
in Scotland**

Birth Cohort 1
2004/5

**Growing Up
in Scotland**

2010/1
Birth Cohort 2

~~**LIFE
STUDY**~~

2014
(Discontinued 2016)

2016

2020

2026

Administrative Data and Youth Research

Administrative Data and Youth Research

- Less data
- Fewer explanatory variable
- Absent key measures
- Variable data quality
- No data on behaviours, preferences, opinions, attitudes, aspirations etc.
- Restricted access (e.g. analysis in safe settings)

Administrative Data and Youth Research

- Connelly, R., Playford, C.J., Gayle, V. and Dibben, C., 2016. The role of administrative data in the big data revolution in social science research. *Social science research*, 59, pp.1-12.
- Playford, C.J., Gayle, V., Connelly, R. and Gray, A.J., 2016. Administrative social science data: The challenge of reproducible research. *Big Data & Society*, 3(2), p.2053951716684143.
- Connelly, R., Gayle, V. and Lambert, P. S. (2016) 'Modelling key variables in social science research: Introduction to the special section', *Methodological Innovations*. doi: [10.1177/2059799116637782](https://doi.org/10.1177/2059799116637782).

What is required...













On the ship of fools

George Walden From Johnson to Corbyn,
our leaders are men without qualities

Amelia Tait
What my Polish
granny taught me
about refugees

James Bridle on
the rise of Bitcoin
Yanis Varoufakis
on the fall of Syriza

NewStatesman

2019/£4.50

Enlightened thinking in dark times

The Current Crisis in British Youth Data

The missing cohorts and the failure of administrative data

Vernon Gayle

