

# DUMF 2024 research methods for Environmental Scientists

Reading list with suggested and essential text for the course. There are also a number of online resources to use.

View Online



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1.  
Jones A. Practical skills in environmental science [Internet]. Harlow, Essex: Prentice Hall; 2000. Available from:  
[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2121660630003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab□=en\\_US□=en\\_US□=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2121660630003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab□=en_US□=en_US□=en_US)
  2.  
The Scientific Method [Internet]. Available from:  
<https://www.youtube.com/watch?v=yi0hwFDQTSQ>
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The Scientific Method [Internet]. Available from:  
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The Experimental Method [Internet]. Available from:  
<https://www.youtube.com/watch?v=ay1o8XjoMVk>
  5.  
Holden J, Dawson Books. An introduction to physical geography and the environment [Internet]. 3rd ed. Harlow, Essex: Pearson; 2012. Available from:  
<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9780273740872>

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Brady NC, Weil RR. The nature and properties of soils [Internet]. 12th ed. Upper Saddle River, NJ: Pearson Prentice Hall; 1999. Available from: [https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2124386220003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab□=en\\_US□=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2124386220003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab□=en_US□=en_US)

7.

Stevens JP, Blackstock TH, Howe EA, Stevens DP. Repeatability of Phase 1 habitat survey. *Journal of Environmental Management*. 2004 Oct;73(1):53-9.

8.

Cherrill A, Mcclean C. Between-observer variation in the application of a standard method of habitat mapping by environmental consultants in the UK. *Journal of Applied Ecology*. 1999 Dec;36(6):989-1008.

9.

Cherrill A, McClean C. The reliability of 'Phase 1' habitat mapping in the UK: the extent and types of observer bias. *Landscape and Urban Planning*. 1999 Oct;45(2-3):131-43.

10.

Ordnance Survey Blog Map reading skills: learn how to use grid references - Ordnance Survey Blog [Internet]. Available from: <https://getoutside.ordnancesurvey.co.uk/guides/beginners-guides-map-reading/>

11.

Handbook for Phase 1 habitat survey - a technique for environmental audit. [Internet]. Available from: <http://jncc.defra.gov.uk/page-2468>

12.

Handbook for Phase 1 habitat survey - pub10\_handbookforphase1habitatsurvey.pdf  
[Internet]. Available from:  
<http://data.jncc.gov.uk/data/9578d07b-e018-4c66-9c1b-47110f14df2a/Handbook-Phase1-HabitatSurvey-Revised-2016.pdf>

13.

Phase one habitat pencils [Internet]. Available from:  
[https://blog.nhbs.com/wildlife\\_equipment/berol-verithin-coloured-pencils-for-phase-1-habitat-surveys/](https://blog.nhbs.com/wildlife_equipment/berol-verithin-coloured-pencils-for-phase-1-habitat-surveys/)

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R: The R Project for Statistical Computing [Internet]. Available from:  
<https://www.r-project.org/>

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Crawley MJ, Ebooks Corporation Limited. The R book [Internet]. Second edition. Chichester, West Sussex: John Wiley & Sons, Ltd; 2013. Available from:  
<https://ebookcentral.proquest.com/lib/gla/detail.action?docID=1120574>

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Harris R, Jarvis C. Statistics in geography and environmental science [Internet]. Harlow: Prentice Hall; 2011. Available from:  
[https://uws-primo.hosted.exlibrisgroup.com/permalink/f/1a10t95/44PAI\\_ALMA2137005960003931](https://uws-primo.hosted.exlibrisgroup.com/permalink/f/1a10t95/44PAI_ALMA2137005960003931)

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18.

Introductory Statistics - Chapter 1: Introduction [Internet]. 2008. Available from:

[https://www.youtube.com/watch?v=YHXadaW\\_Iso](https://www.youtube.com/watch?v=YHXadaW_Iso)

19.

Introductory Statistics - Chapter 2: Presenting data [Internet]. 14AD. Available from:  
<https://www.youtube.com/watch?v=qKPhtBlsyIY&feature=related>

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Introductory Statistics - Chapter 3: Measuring data [Internet]. 14AD. Available from:  
<https://www.youtube.com/watch?v=NIhU9HB1NwM&fe>

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sample average and standard deviation.mp4 [Internet]. 2AD. Available from:  
<https://www.youtube.com/watch?v=w-eZe-slZho>

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Statistics: Sample vs. Population Mean [Internet]. 19AD. Available from:  
[https://www.youtube.com/watch?v=hsPCte\\_PcVA](https://www.youtube.com/watch?v=hsPCte_PcVA)

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Heywood DI, Cornelius S, Carver S. An introduction to geographical information systems [Internet]. 4th ed. Harlow: Prentice Hall; 2011. Available from:  
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