

Repurposing Data Across Disciplines: A Study of Data Reuse Issues Between Climate Science & Social Science

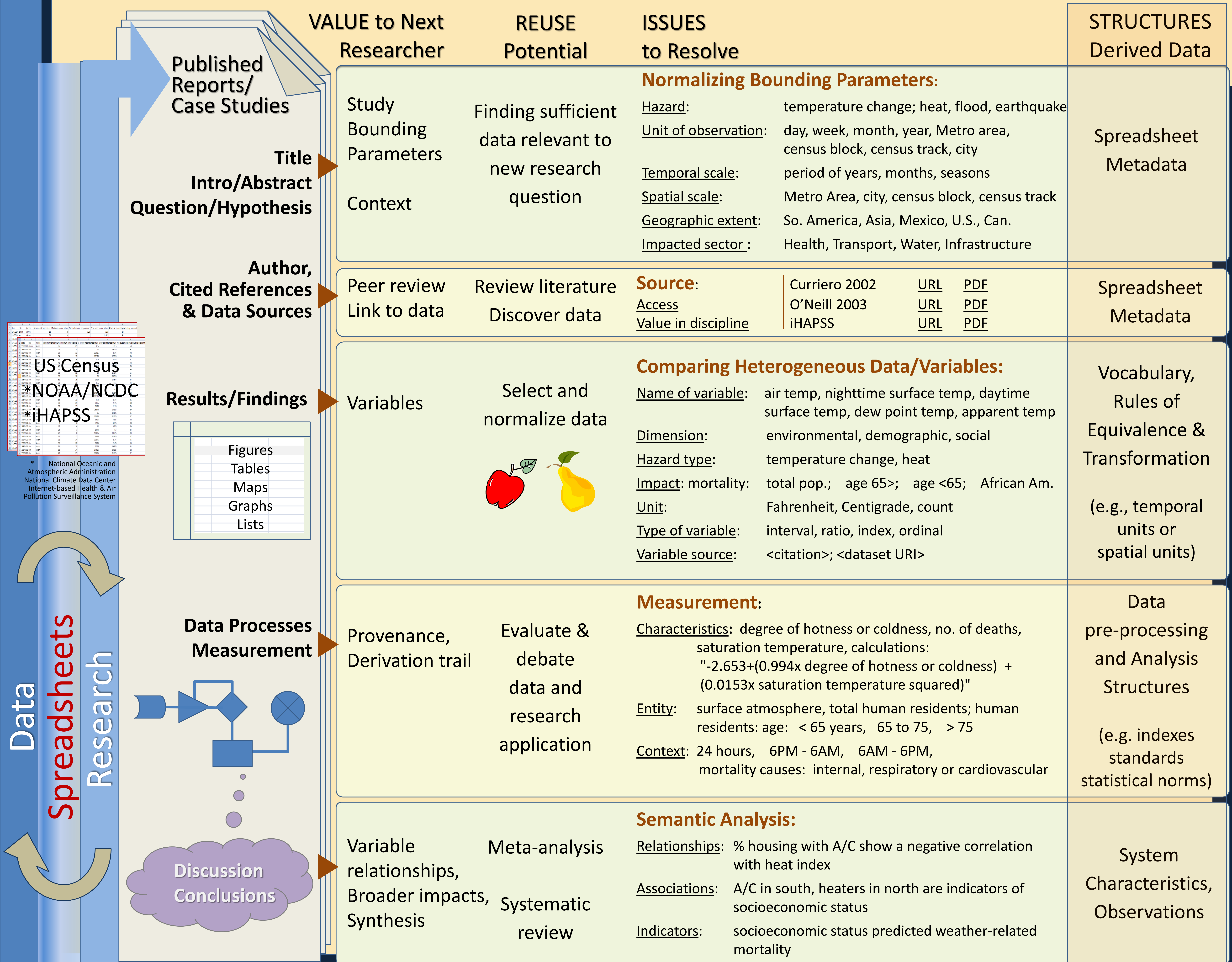
Lynne Davis, University Corporation for Atmospheric Research

Peter Alston, University of Colorado at Boulder

John D'Ignazio, Syracuse University

Funded through the Data Conservancy Project, part of National Science Foundation Solicitation 07-601

'What factors will improve urban resilience to impacts of climate change?'



Data Spreadsheets Research

Deposit/curate derived data (spreadsheets) and metadata

Date	Metro Area	air temp	dew point temp	Apparent Temp	mortality: total population	mortality: age less than 65
19940101	Chicago	55	55	72	39	22
19940201	Chicago	45	45	74	24	11
19940301	Chicago	69	47	69	51	23
19940401	Chicago	66	59	57	38	17
19940501	Chicago	71	62	57	31	6
19940601	Chicago	76	64	53	29	9
19940701	Chicago	84	64	41	24	24
19940801	Boston	81	56	57	53	27
19940901	Boston	54	56	49	27	27
19941001	Boston	69	69	54	48	27
19941101	Alison	64	64	45	36	25
19941201	Alison	50	50	48	27	24
19950101	Alison	63	54	42	42	29
19950201	Alison	63	54	42	42	29
19950301	Alison	63	54	42	42	29
19950401	Alison	63	54	42	42	29
19950501	Alison	63	54	42	42	29
19950601	Alison	63	54	42	42	29
19950701	Alison	63	54	42	42	29
19950801	Alison	63	54	42	42	29
19950901	Alison	63	54	42	42	29
19951001	Alison	63	54	42	42	29
19951101	Alison	63	54	42	42	29
19951201	Alison	63	54	42	42	29

Combined from datasets 1 and 2

Transformed temperature via rules

Aggregated from similar data with different spatial scales (City to Metro area)

EXAMPLE:
What is the relationship between air temperature and mortality?