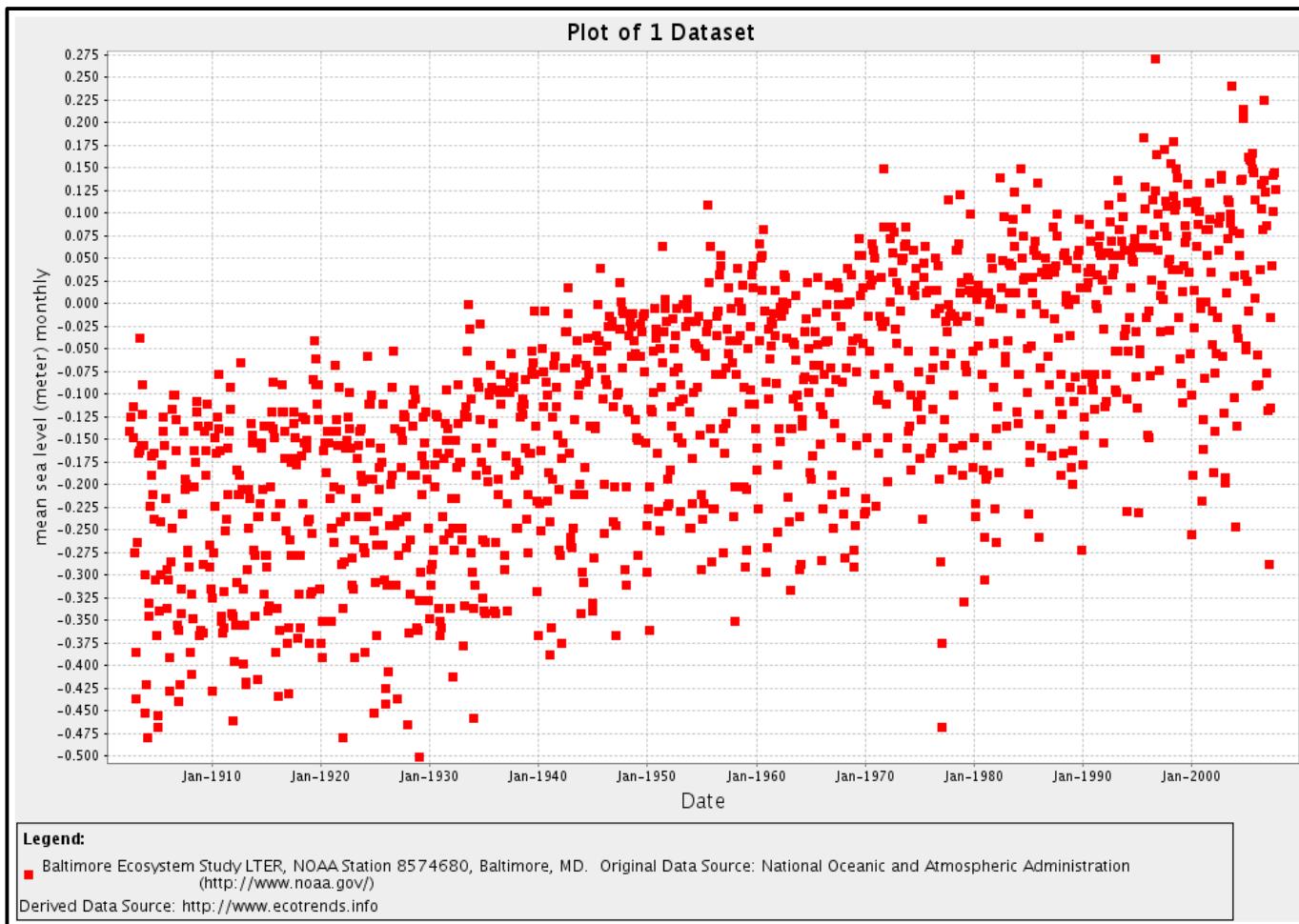
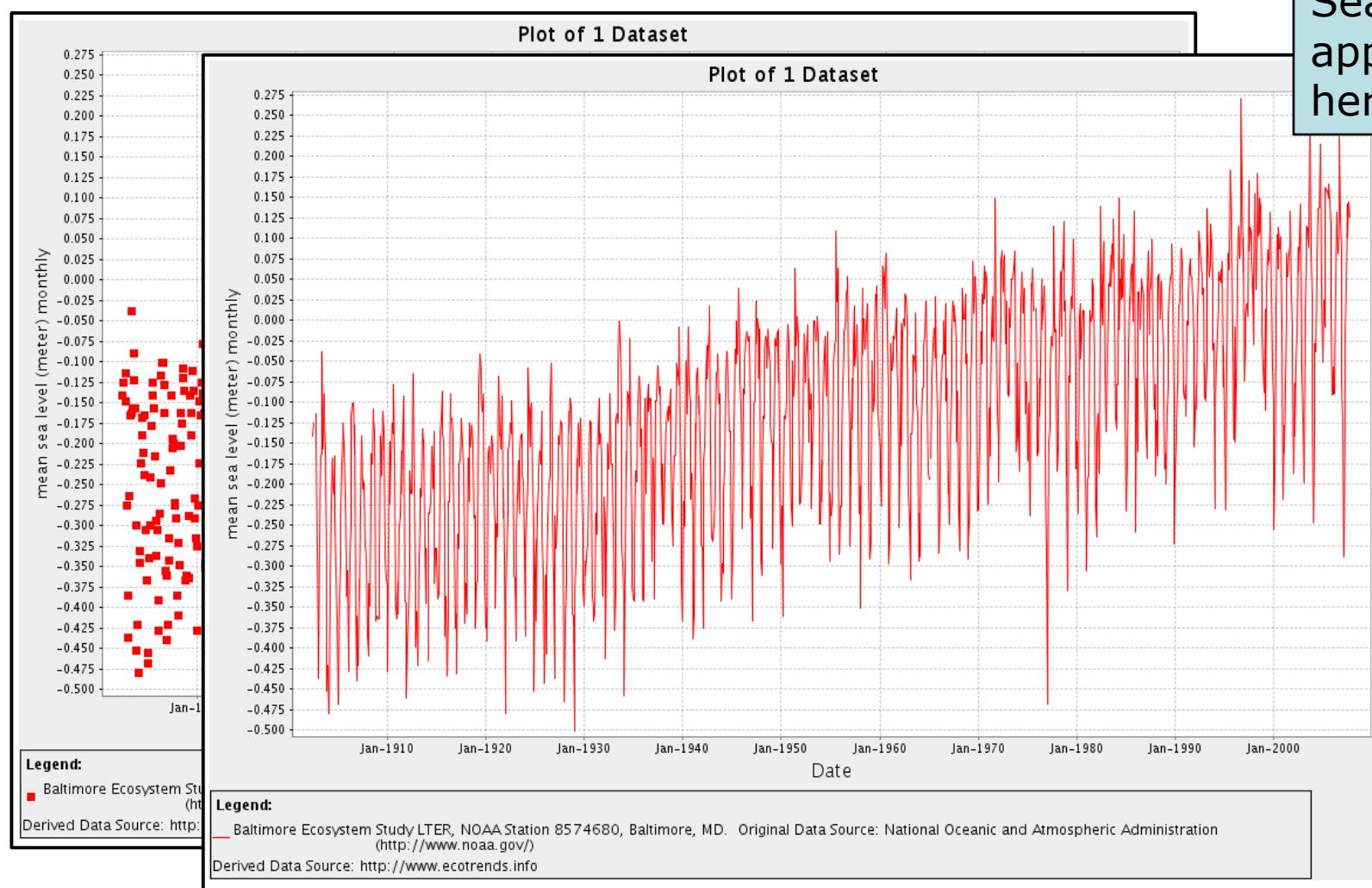


BES LTER Sea-level Plot



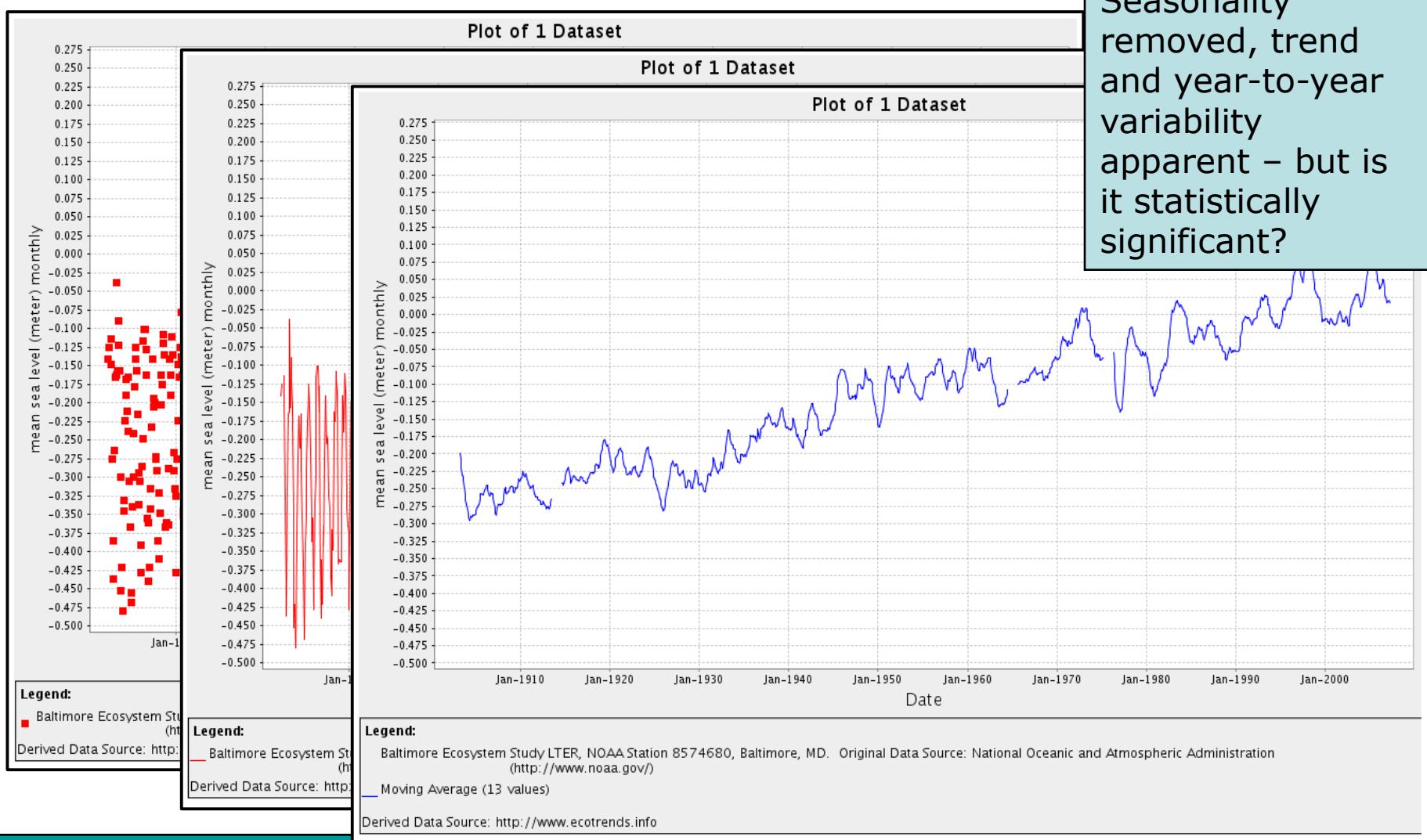
Viewing the data in different ways can potentially lead to different initial conclusions – scatter shows high variability but doesn't show seasonality very well

BES LTER Sea-level Plot



Seasonality
apparent
here

BES LTER Sea-level Plot



Adding the search results to My Data Store



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Plot Options: Data Points Data Lines Moving Average Plot Selected (up to 4)

Site	Stations	Topic	Variable (Unit)	Timestep	
<input type="checkbox"/> Arctic LTER	Toolik Lake Field Station	Climate and physical variability	air temperature (mean) (celsius)	monthly	   
<input type="checkbox"/> Baltimore Ecosystem Study LTER	NWS COOP #180465, Baltimore Washington International Airport, MD	Climate and physical variability	air temperature (mean) (celsius)	monthly	   
<input type="checkbox"/> California Current Ecosystem	Lindbergh CDO	Climate and physical variability	air temperature (mean) (celsius)	monthly	   
<input type="checkbox"/> California Current Ecosystem	NWS COOP #047740, San Diego Lindbergh Field, CA	Climate and physical variability	air temperature (mean) (celsius)	monthly	   
<input type="checkbox"/> Palmer Station	Palmer Observatory	Climate and physical variability	air temperature (mean) (celsius)	monthly	   
<input type="checkbox"/> Baltimore Ecosystem Study LTER	NOAA Station 8574680, Baltimore, MD	Climate and physical variability	mean sea level (meter)	monthly	   
<input type="checkbox"/> California Current Ecosystem	NOAA Station 9410170, San Diego, CA	Climate and physical variability	mean sea level (meter)	monthly	   

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Home

About EcoTrends

Datasets: Browse, Search and Explore

- By Topic**
- By Site**
- By Keyword**
- Advanced Search**
- My Data Store**

Data Guidelines and Policies

Participating Sites

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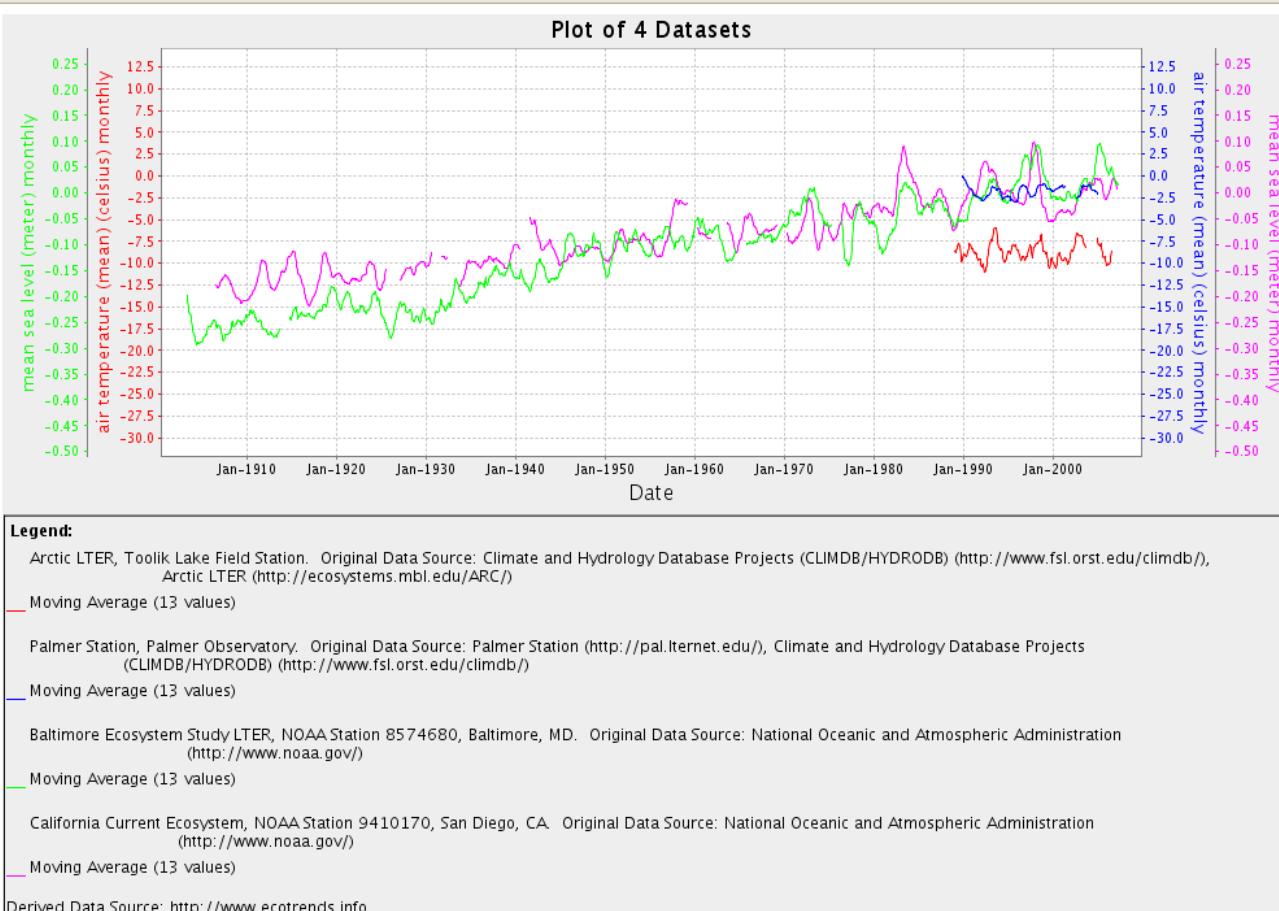
[Remove All Datasets](#)

Plot Options: Data Points Data Lines Moving Average [Plot Selected \(up to 4\)](#)

Site	Stations	Topic	Variable (Unit)	Timestamp	
<input type="checkbox"/> Arctic LTER	Toolik Lake Field Station	Climate and physical variability	air temperature (mean) (celsius)	monthly	   
<input type="checkbox"/> Baltimore Ecosystem Study LTER	NOAA Station 8574680, Baltimore, MD	Climate and physical variability	mean sea level (meter)	monthly	  
<input type="checkbox"/> Baltimore Ecosystem Study LTER	NWS COOP #180465, Baltimore Washington International Airport, MD	Climate and physical variability	air temperature (mean) (celsius)	monthly	  
<input type="checkbox"/> California Current Ecosystem	Lindbergh CDO	Climate and physical variability	air temperature (mean) (celsius)	monthly	  
<input type="checkbox"/> California Current Ecosystem	NOAA Station 9410170, San Diego, CA	Climate and physical variability	mean sea level (meter)	monthly	  
<input type="checkbox"/> California Current Ecosystem	NWS COOP #047740, San Diego Lindbergh Field, CA	Climate and physical variability	air temperature (mean) (celsius)	monthly	  
<input type="checkbox"/> Palmer Station	Palmer Observatory	Climate and physical variability	air temperature (mean) (celsius)	monthly	  

Start cross-site, multi-variable analysis by selecting datasets.

Sea-level and Temperature Plot



Observations and questions to provoke critical thinking:

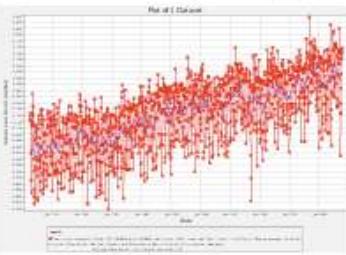
Why do we see trends in sea level but not in temperature? [length of record, small sample size, etc.]

What if we looked at mean maximum or mean minimum temperatures?

What might we need to further explore our hypotheses?

Viewing and downloading data and metadata

EcoTrends Dataset Identifier: [ecotrends.17703.1](#)

Original Data Source:	National Oceanic and Atmospheric Administration		
Site:	Baltimore Ecosystem Study LTER	Stations:	NOAA Station 8574680, Baltimore, MD
Revision:	1 of 1	Date Range:	1902-07-01 to 2007-09-30
Other Revisions:	Timescale: monthly		
View:	Data (as HTML) Metadata-EML (as HTML)		
Download:	Data (as CSV) Metadata-EML (as XML)		
Plot:	 (Click to view plot)		
Plot Options: <input checked="" type="checkbox"/> Data Points <input checked="" type="checkbox"/> Data Lines <input checked="" type="checkbox"/> Moving Average			

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BES LTER Sea-level Data Download

html

Baltimore Ecosystem Study LTER site, station NOAA Station 8574680, Baltimore, MD, study of mean sea level in units of meter on a monthly timescale		
Derived Data Source:	http://www.ecotrends.info	
Original Data Source:	National Oceanic and Atmospheric Administration (http://www.noaa.gov/)	
Site:	BES	
Stations:	NOAA Station 8574680, Baltimore, MD	
Variable:	mean sea level (meter)	
Timescale:	monthly	
Dataset ID:	ecotrends.17703.1	
Disclaimer:	These data are provided for display only and do not include all content as specified in the metadata document ecotrends.17703.1	
Year	Month	mean sea level (meter)
1902	07	-0.142
1902	08	-0.126
1902	09	NA
1902	10	-0.114
1902	11	-0.148
1902	12	-0.276
1903	01	-0.386

.csv

ecotrends_17703_1 - OpenOffice.org Calc			
File Edit View Insert Format Tools Data Window Help			
Arial 10 B I U =			
E15	f(x)	Σ	=
1	Derived Data Source:	http://www.ecotrends.info	
2	Original Data Source:	National Oceanic and Atmospheric Administration (http://www.noaa.gov/)	
3	Site:	BES	
4	Stations:	NOAA Station 8574680	Baltimore MD
5	Variable:	mean sea level (meter)	
6	Timescale:	monthly	
7	Dataset ID:	ecotrends.17703.1	
8	Disclaimer:	These data are provided for display only and do not include all content as specified in the metadata document ecotrends.17703.1	
9			
10			
11	Year	Month	mean sea level (meter)
12	1902	7	-0.142
13	1902	8	-0.126
14	1902	9	NA
15	1902	10	-0.114
16	1902	11	-0.148
17	1902	12	-0.276
18	1903	1	-0.386
19	1903	2	-0.437
20	1903	3	-0.264
21	1903	4	-0.166
22	1903	5	-0.163
23	1903	6	-0.038
24	1903	7	-0.157
25	1903	8	-0.090
26	1903	9	-0.123
27	1903	10	-0.157
	1903	11	0.300

BES LTER Sea-level Metadata Download

HTML – same look as data in LTER metacat

Data Set Citation:
2002 Baltimore Ecosystem Study LTER site, station NWS COOP #180465, Baltimore Washington International Airport, MD, study of air temperature (mean) in units of celsius on a monthly timescale
ecotrends 10057.1

Data Tables, Images, and Other Entities:
Metadata download: [Ecological Metadata Language \(EML\) File](#)
Data Table: [View Metadata](#)

Online Distribution Info:
Download File: <https://www.ecotrends.info/EcoTrends/data/auditService?name=plain&id=ecotrends.10057.1>

Data Set Owner(s):

Organization:	National Climatic Data Center (NCDC)
Address:	Federal Building, 151 Patton Avenue, Asheville, NC 28801-5601 USA
Phone:	828-271-4800 (voice)
Email Address:	ncdc.info@noaa.gov
Web Address:	http://www.ncdc.noaa.gov/sahdc.html
Organization:	EcoTrends Project
Position:	EcoTrends Project Coordinator
Address:	USDA-ARS Jornada Experimental Range, P.O. Box 30003, MSC 3160, New Mexico State University, Las Cruces, NM 88003 USA
Email Address:	ecotrend@nmsu.edu
Web Address:	http://www.ecotrends.info

Metadata Provider(s):

Organization:	EcoTrends Project
Position:	EcoTrends Project Coordinator
Address:	USDA-ARS Jornada Experimental Range, P.O. Box 30003, MSC 3160, New Mexico State University, Las Cruces, NM 88003 USA
Email Address:	ecotrend@nmsu.edu
Web Address:	http://www.ecotrends.info
Organization:	LSU Network Office

EML –
Ecological
Metadata
Language

Opportunities to discuss data documentation and sharing (importance to science), underlying modern techniques needed (i.e., coding), and importance of data managers and programmers in the natural sciences.

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Acknowledgements

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<http://www.p2erls.net>

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