

Data Set Citation

When using this data, please cite the data package

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Cook D , Napack J , Campbell D , Louch J , Stednick J , and Menk M.

Alsea watershed study revisited: unpublished temperature datasets from pre-harvest 2006 to 2010
guendigioia.3.2

General Information

Title: **Alsea watershed study revisited: unpublished temperature datasets from 2006 to 2010**

Identifier: guendigioia.3.2

Abstract: These data contain temperature readings from dataloggers launched in Deer Creek, Flynn Creek, and Needle Branch from 2006 to 2010. These loggers were apart of the Alsea Watershed Revisited Study Revisited articles, but the data was incomplete due to logging gaps, temperature spikes, or other issues. The "ThermistorFunction" datasets indicate whether dataloggers launched in each stream have complete datasets or not. Despite these data not being complete, they help tell the data collection story for the Alsea Watershed Study Revisited.

Keywords:

- Forest Management
- Stream Gauging Stations
- Pacific Northwest
- Riparian Areas
- Thermal Pollution
- Water Temperature

Involved Parties

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Data Set Characteristics

Geographic Region:									
Geographic Description:	DC_1								
Bounding Coordinates:	<table> <tr> <td>West:</td> <td>-123.814360140855 degrees</td> </tr> <tr> <td>East:</td> <td>-123.814360140855 degrees</td> </tr> <tr> <td>North:</td> <td>44.5370588 degrees</td> </tr> <tr> <td>South:</td> <td>44.5370588 degrees</td> </tr> </table>	West:	-123.814360140855 degrees	East:	-123.814360140855 degrees	North:	44.5370588 degrees	South:	44.5370588 degrees
West:	-123.814360140855 degrees								
East:	-123.814360140855 degrees								
North:	44.5370588 degrees								
South:	44.5370588 degrees								

Geographic Region:

Geographic Description: DC_10

Bounding Coordinates: West: -123.0619368 degrees
East: -123.0619368 degrees
North: 44.5457598 degrees
South: 44.5457598 degrees**Geographic Region:**

Geographic Description: DC_10T5

Bounding Coordinates: West: -123.8115910361 degrees
East: -123.8115910361 degrees
North: 44.5457634 degrees
South: 44.5457634 degrees**Geographic Region:**

Geographic Description: DC_11

Bounding Coordinates: West: -123.87437527 degrees
East: -123.75050089473 degrees
North: 44.5457173095 degrees
South: 44.5457173095 degrees**Geographic Region:**

Geographic Description: DC_1A

Bounding Coordinates: West: -123.87652 degrees
East: -123.75264348 degrees
North: 44.53846 degrees
South: 44.53846 degrees**Geographic Region:**

Geographic Description: DC_2

Bounding Coordinates: West: -123.875556306 degrees
East: -123.75168074969399 degrees
North: 44.5386463449 degrees
South: 44.5386463449 degrees**Geographic Region:**

Geographic Description: DC_3

Bounding Coordinates: West: -123.875303096 degrees
East: -123.751427792904 degrees
North: 44.5389494899 degrees
South: 44.5389494899 degrees**Geographic Region:**

Geographic Description:	DC_4
Bounding Coordinates:	West: -123.875334736 degrees
	East: -123.751459401264 degrees
	North: 44.5392230411 degrees
	South: 22,317001. 2// degrees

Geographic Region:

Geographic Description:	DC_4T2
Bounding Coordinates:	West: -123.8753496 degrees
	East: -123.75147425040001 degrees
	North: 44.5394566 degrees
	South: 44.5394566 degrees

Geographic Region:

Geographic Description:	DC_5
Bounding Coordinates:	West: -123.875570889 degrees
	East: -123.751695318111 degrees
	North: 44.5406917299 degrees
	South: 44.5406917299 degrees

Geographic Region:

Geographic Description:	DC_6
Bounding Coordinates:	West: -123.875724765 degrees
	East: -123.751849040235 degrees
	North: 44.5409351269 degrees
	South: 44.5409351269 degrees

Geographic Region:

Geographic Description:	DC_6T3
Bounding Coordinates:	West: -123.8756956 degrees
	East: -123.7518199044 degrees
	North: 44.5409095 degrees
	South: 44.5409095 degrees

Geographic Region:

Geographic Description:	DC_7
Bounding Coordinates:	West: -123.875 degrees
	East: -123.75 degrees
	North: 44.54122 degrees
	South: 44.54122 degrees

Geographic Region:

Geographic Description:	DC_8

Bounding Coordinates:	West: -123.874483542 degrees
	East: -123.750609058458 degrees
	North: 44.543946787 degrees
	South: 44.543946787 degrees

Geographic Region:

Geographic Description:	DC_9
Bounding Coordinates:	West: -123.87431408 degrees
	East: -123.75043976592 degrees
	North: 44.5453516343 degrees
	South: 44.5453516343 degrees

Geographic Region:

Geographic Description:	DC_G
Bounding Coordinates:	West: -123.877792082 degrees
	East: -123.753914289918 degrees
	North: 44.535314935 degrees
	South: 44.535314935 degrees

Geographic Region:

Geographic Description:	DC_UN1
Bounding Coordinates:	West: -123.87629829 degrees
	East: -123.75242199171 degrees
	North: 44.53705588 degrees
	South: 44.53705588 degrees

Geographic Region:

Geographic Description:	DC_UN2
Bounding Coordinates:	West: -123.8716 degrees
	East: -123.7477284 degrees
	North: 44.54784 degrees
	South: 44.54784 degrees

Geographic Region:

Geographic Description:	DC_UN3
Bounding Coordinates:	West: -123.875303096 degrees
	East: -123.751427792904 degrees
	North: 44.5389494899 degrees
	South: 44.5389494899 degrees

Geographic Region:

Geographic Description:	DC_lower
Bounding Coordinates:	West: -123.8801 degrees

East: -123.7562199 degrees

North: 44.5337 degrees

South: 44.5337 degrees

Geographic Region:

Geographic Description: FC_1

Bounding Coordinates:

West: -123.85379 degrees

East: -123.72993621 degrees

North: 44.54028 degrees

South: 44.54028 degrees

Geographic Region:

Geographic Description: FC_10

Bounding Coordinates:

West: -123.85681 degrees

East: -123.73295318999999 degrees

North: 44.54618 degrees

South: 44.54618 degrees

Geographic Region:

Geographic Description: FC_11

Bounding Coordinates:

West: -123.85795 degrees

East: -123.73409205 degrees

North: 44.54612 degrees

South: 44.54612 degrees

Geographic Region:

Geographic Description: FC_12

Bounding Coordinates:

West: -123.85677 degrees

East: -123.73291323 degrees

North: 44.54672 degrees

South: 44.54672 degrees

Geographic Region:

Geographic Description: FC_15

Bounding Coordinates:

West: -123.85618 degrees

East: -123.73232381999999 degrees

North: 44.54863 degrees

South: 44.54863 degrees

Geographic Region:

Geographic Description: FC_2

Bounding Coordinates:

West: -123.85419 degrees

East: -123.73033581 degrees

North: 44.54004 degrees

South: 44.54004 degrees

Geographic Region:

Geographic Description: FC_3

Bounding Coordinates:

West: -123.85449 degrees

East: -123.73063551 degrees

North: 44.54018 degrees

South: 44.54018 degrees

Geographic Region:

Geographic Description: FC_4

Bounding Coordinates:

West: -123.85456 degrees

East: -123.73070544000001 degrees

North: 44.54051 degrees

South: 44.54051 degrees

Geographic Region:

Geographic Description: FC_5

Bounding Coordinates:

West: -123.85513 degrees

East: -123.73127487000001 degrees

North: 44.540882 degrees

South: 44.540882 degrees

Geographic Region:

Geographic Description: FC_6

Bounding Coordinates:

West: -123.85689 degrees

East: -123.73303311000001 degrees

North: 44.54271 degrees

South: 44.54271 degrees

Geographic Region:

Geographic Description: FC_7

Bounding Coordinates:

West: -123.857397 degrees

East: -123.73353960300001 degrees

North: 44.543045 degrees

South: 44.543045 degrees

Geographic Region:

Geographic Description: FC_8

Bounding Coordinates:

West: -123.85716 degrees

East: -123.73330284 degrees

North: 44.54322 degrees

South: 44.54322 degrees

Geographic Region:

Geographic Description: FC_865MS

Bounding Coordinates:

West: -123.85716 degrees

East: -123.73330284 degrees

North: 44.54322 degrees

South: 44.54322 degrees

Geographic Region:

Geographic Description: FC_9

Bounding Coordinates:

West: -123.85723 degrees

East: -123.73337277 degrees

North: 44.54319 degrees

South: 44.54319 degrees

Geographic Region:

Geographic Description: FC_9 (TRIB3)

Bounding Coordinates:

West: -123.85723 degrees

East: -123.73337277 degrees

North: 44.54319 degrees

South: 44.54319 degrees

Geographic Region:

Geographic Description: FC_9 (TRIB6)

Bounding Coordinates:

West: -123.85723 degrees

East: -123.73337277 degrees

North: 44.54319 degrees

South: 44.54319 degrees

Geographic Region:

Geographic Description: FC_955MS

Bounding Coordinates:

West: -123.85723 degrees

East: -123.73337277 degrees

North: 44.54319 degrees

South: 44.54319 degrees

Geographic Region:

Geographic Description: FC_G

Bounding Coordinates:

West: -123.85333 degrees

East: -123.72947667 degrees

North: 44.53939 degrees

South: 44.53939 degrees

Geographic Region:

Geographic Description: FC_MS

Bounding Coordinates:
West: -123.85439 degrees
East: -123.73053560999999 degrees
North: 44.54876 degrees
South: 44.54876 degrees**Geographic Region:**

Geographic Description: FC_MS1

Bounding Coordinates:
West: -123.85439 degrees
East: -123.73053560999999 degrees
North: 44.54876 degrees
South: 44.54876 degrees**Geographic Region:**

Geographic Description: FC_MS2 (FC_UN2)

Bounding Coordinates:
West: -123.85439 degrees
East: -123.73053560999999 degrees
North: 44.54876 degrees
South: 44.54876 degrees**Geographic Region:**

Geographic Description: FC_T5 (TRIB5)

Bounding Coordinates:
West: -123.85513 degrees
East: -123.73127487000001 degrees
North: 44.540882 degrees
South: 44.540882 degrees**Geographic Region:**

Geographic Description: FC_T6 (FC_UN1)

Bounding Coordinates:
West: -123.85523 degrees
East: -123.73137477 degrees
North: 44.54982 degrees
South: 44.54982 degrees**Geographic Region:**

Geographic Description: FC_UN2

Bounding Coordinates:
West: -123.85439 degrees
East: -123.73053560999999 degrees
North: 44.54876 degrees
South: 44.54876 degrees**Geographic Region:**

Geographic Description: NB_1

Bounding Coordinates:

West:	-123.85406 degrees
East:	-123.73020594 degrees
North:	44.51325 degrees
South:	44.51325 degrees

Geographic Region:

Geographic Description: NB_2

Bounding Coordinates:

West:	-123.85429 degrees
East:	-123.73043571000001 degrees
North:	44.51452 degrees
South:	44.51452 degrees

Geographic Region:

Geographic Description: NB_3

Bounding Coordinates:

West:	-123.85464 degrees
East:	-123.73078536 degrees
North:	44.51447 degrees
South:	44.51447 degrees

Geographic Region:

Geographic Description: NB_4

Bounding Coordinates:

West:	-123.85439 degrees
East:	-123.73053560999999 degrees
North:	44.51459 degrees
South:	44.51459 degrees

Geographic Region:

Geographic Description: NB_5

Bounding Coordinates:

West:	-123.85445 degrees
East:	-123.73059555 degrees
North:	44.51612 degrees
South:	44.51612 degrees

Geographic Region:

Geographic Description: NB_6

Bounding Coordinates:

West:	-123.85175 degrees
East:	-123.72789825 degrees
North:	44.51686 degrees
South:	44.51686 degrees

Geographic Region:

Geographic Description: NB_6B

Bounding Coordinates:

West:	-123.85373 degrees
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East: -123.72987627 degrees

North: 44.51654 degrees

South: 44.51654 degrees

Geographic Region:

Geographic Description: NB_7

Bounding Coordinates:

West: -123.85019 degrees

East: -123.72633981 degrees

North: 44.5199 degrees

South: 44.5199 degrees

Geographic Region:

Geographic Description: NB_G

Bounding Coordinates:

West: -123.85641 degrees

East: -123.73255359 degrees

North: 44.50942 degrees

South: 44.50942 degrees

Geographic Region:

Geographic Description: NB_H

Bounding Coordinates:

West: -123.85641 degrees

East: -123.73255359 degrees

North: 44.50942 degrees

South: 44.50942 degrees

Geographic Region:

Geographic Description: NB_L

Bounding Coordinates:

West: -123.85641 degrees

East: -123.73255359 degrees

North: 44.50942 degrees

South: 44.50942 degrees

Geographic Region:

Geographic Description: NB_MS68

Bounding Coordinates:

West: -123.85459 degrees

East: -123.73073541000001 degrees

North: 44.51612 degrees

South: 44.51612 degrees

Geographic Region:

Geographic Description: NB_UN1

Bounding Coordinates:

West: -123.85459 degrees

East: -123.73073541000001 degrees

North: 44.51612 degrees

South: 44.51612 degrees

Geographic Region:

Geographic Description: NB_U

Bounding Coordinates:

West: -123.85075 degrees

East: -123.72689925 degrees

North: 44.52144 degrees

South: 44.52144 degrees

Geographic Region:

Geographic Description: NB_UN2

Bounding Coordinates:

West: -123.8504 degrees

East: -123.7265496 degrees

North: 44.52161 degrees

South: 44.52161 degrees

Geographic Region:

Geographic Description: NB_UN3

Bounding Coordinates:

West: -123.84994 degrees

East: -123.72609006 degrees

North: 44.52097 degrees

South: 44.52097 degrees

Geographic Region:

Geographic Description: U_NBA

Bounding Coordinates:

West: -123.85075 degrees

East: -123.72689925 degrees

North: 44.52144 degrees

South: 44.52144 degrees

Geographic Region:

Geographic Description: U_NBB

Bounding Coordinates:

West: -123.85423 degrees

East: -123.73037577 degrees

North: 44.51612 degrees

South: 44.51612 degrees

Time Period:

Begin: 2006-06-14

End: 2006-09-19

Time Period:

Begin:	2007-06-01
End:	2007-09-24
Time Period:	
Begin:	2008-06-10
End:	2008-12-14
Time Period:	
Begin:	2009-06-02
End:	2009-09-30
Time Period:	
Begin:	2010-07-13
End:	2010-09-30

Sampling, Processing and Quality Control Methods

Step by Step Procedures	
Step 1:	
Description:	<p>Data Collection and Storage</p> <p>Prior to launching the loggers, their individual information was tabulated and stored. This allowed for calibration and deployment information to be stored. The loggers' battery power supplies were replaced annually. Calibration followed instructions from Onset. When launched, temperature recording was set between 30-minute to 60-minute intervals (60-min for Hobos, 30-min for all other types of thermistors).</p>
Instrument(s):	CS547A-L probes at gauging stations, Onset® Hobo TidbiT v2 temperature data loggers, and in 2007 & 2008 Onset® Pro v2 temperature data loggers.
Step 2:	
Description:	<p>Deer Creek lat/long thermistor coordinates</p> <p>DC_UN2, DC_7, DC_UN2, and DC_1A are approximated from the Appendix A map in Bousquet (2016). DC_10T5, DC_4T2, & DC6T3 are estimated from their associated thermistors within 50 m up the tributaries. DC_UN1 and DC_UN3 are copied from their associated mainstem thermistor locations as the tributaries are not found from map overlays available in QGIS.</p>
Instrument(s):	QGIS
Step 3:	
Description:	<p>Flynn Creek lat/long thermistor coordinates</p> <p>FC_MS, FC_15, FC_11, FC_7, FC_4, and FC_2 are all approximated from the Appendix A map in Bousquet (2016). FC_9 (TRIB3), FC_9 (TRIB6), FC_955MS are given the same coordinates as FC_9 since the tributaries are not found on the QGIS map overlays. FC_865MS are given the same coordinates as FC_8. FC_T5 is given</p>

the same coordinates as FC_5. FC_T6 is given the same coordinates as FC_6. FC_UN2 and FC_MS2 (FC_UN2). are given the same coordinates as FC_MS

Instrument(s): QGIS

Step 4:

Description: **Needle Branch lat/long thermistor coordinates**

NB_H & NB_L are given the same coordinates as NB_G. U_NBA & NB_U and are approximated from the Appendix A maps in Bousquet (2016). NB_UN2, NB_UN3, and NB_7 are also approximated from the Appendix A maps.

Instrument(s): QGIS

Step 5:

Description: **UnpublishedAWS_2006_2010_Data**

Dataset files: WY2006, WY2007, WY2008, WY2009, WY2010

within each file: NeedleBranchGauge, FlynnCreekGauge, DeerCreekGauge

filename format within each: XXXXXX_WYYYYY_ThermistorName

The first six digits are the serial number for each thermistor, then the water year for each dataset, then the thermistor name tied with the location. Within each file, the columns headings are:

Date/Time: mm/dd/yy 00:00 ; 24-hour clock

Temperature_C: temperature in Celsius

WY 2006

Deer Creek:

811439_WY2006_DC1

811444_WY2006_DC11

818614_WY2006_DC6

818617_WY2006_DC7

818623_WY2006_DC2

818625_WY2006_DC4

818633_WY2006_DC10

818637_WY2006_DC3

818642_WY2006_DC5

818644_WY2006_DC9

818645_WY2006_DC1A

818697_WU2006_DCun2

818700_WY2006_DC8_mud

818703_WY2006_DCun3

Flynn Creek:

811438_WY2006_FC12

811442_QY2006_FC9

818618_WY2006_FC10

818621_WY2006_FC11

818622_WY2006_FC8

818626_WY2006_FC7

818628_WY2006_FC5

818629_WY2006_FC6

818640_wy2006_FCun2

818646_WY2006_FC3

818647_WY2006_FC4

818696_WY2006_FC2

818698_WY2006_FCun1

818699_WY2006_FC1

Needle Branch

811440_WY2006_NBun2

811443_WY2006_NB4

818616_WY2006_NBU

818619_WY2006_NB7

818627_WY2006_NB5

818638_WY2006_NBun1

818641_WY2006_NB6

818655_WY2006_NB1

818695_WY2006_NB3

818704_WY2006_NB2

WY 2007

Deer Creek:

818617_WY2007_DC4T2

818618_WY2007_DC6T3

818621_WY2007_DC1

818627_WY2007_DCG

818628_WY2007_DC5

818696_WY2007_DC7

818700_WY2007_DC2

Flynn Creek:

811438_WY2007_FCT5

811439_WY2007_FC3T2

811440_WY2007_FC6

811444_WY2007_FC9T3

818614_WY2007_FCG

818616_WY2007_FC11T4

818640_WY2007_FC4

818644_WY2007_FC865MS

818646_WY2007_FCT6

818699_WY2007_FC12

Needle Branch

818623_WY2007_NB2

818629_WY2007_NBun1

818697_WY2007_NB3

WY 2008

Deer Creek

354722_WY2008_DC2

373019_WY2008_DC7

Flynn Creek

356924_WY2008_FCG

811438_WY2008_FC4

811440_WY2008_FC865MS

811443_WY2008_FCT6(FC_UN1)

818614_WY2008_FC6

818626_WY2008_FCT5

818628_WY2008_FC3

818642_WY2008_FC1

818643_WY2008_FC10

818644_WY2008_FC2

818646_WY2008_FCUN2_OR_FCMS995

818655_WY2008_FC12

Needle Branch

811444_WY2008_NB2

818622_WY2008_NB6

818623_WY2008_NB4

818629_WY2008_NBun1

818640_WY2008_NB7

818647_WY2008_NBG

818695_WY2008_NB1

818697_WY2008_NB5

818704_WY2008_NB3

WY2010

Deer Creek

2291378_WY2010_DCG

Flynn Creek

291386_WY2010_FC2

467024_WY2010_FCMS865

548375_WY2010_FCMS2(FC_UN2)

552963_WY2010_FCT6(FC_UN1)

2291369_WY2010_FC9

2291370_WY2010_FC11

2291376_WY2010_FC12

2291381_WY2010_FCG

2291383_WY2010_FC10

2291384_WY2010_FCT5

2291385_WY2010_FC1

2291392_WY2010_FC6

Needle Branch

348674_WY2010_NB1

348719_WY2010_NBG

348739_WY2010_NBU

348746_WY2010_NB2

348754_WY2010_NB5

356912_WY2010_NB3

356914_WY2010_NBMS

356920_WY2010_NB7

356921_WY2010_NBun2

356932_WY2010_NB6

373029_WY2010_NB4

552958_WY2010_NB7

2291371_WY2010_NB5

2291372_WY2010_NB1

2291373_WY2010_NB6

2291375_WY2010_NBun2

2291379_WY2010_NBG

2291382_WY2010_NBMS

2291388_WY2010_NB2

2291389_WY2010_NBU

2291390_WY2010_NB4

2291391_WY2010_NB3

Step 6:

Description:

Thermistor Functionality

These data provide information about which thermistors were functional from 2006 to 2014 and which were not for each stream. Those that were functional are notated with "TRUE" those that were not were are notated with "FALSE".

File Name: UnpublishedAWS_WatershedName_ThermistorFunction

Unpublished AWS refers to these data being unpublished information for the Alsea Watershed Study (AWS), the smaller watershed name, Deer Creek, Flynn Creek, or Needle Branch. Thermistor Function is whether a thermistor was functional, which is denoted in each file.

Files:

UnpublishedAWS_DeerCreek_ThermistorFunction

UnpublishedAWS_FlynnCreek_ThermistorFunction

UnpublishedAWS_NeedleBranch_ThermistorFunction

Column Headings:

Thermistor: reference to specific thermistors in each creek

Year: the water year, 2006 to 2014

Functional: TRUE means the thermistor was functional throughout the water year, or FALSE, the thermistor was

not functional throughout the water year

List of thermistors for each stream:

Deer Creek

DC_1

DC_10

DC_10T5

DC_11

DC_1A

DC_2

DC_3

DC_4

DC_4T2

DC_5

DC_6

DC_6T3

DC_7

DC_8

DC_9

DC_G

DC_UN1

DC_UN2

DC_UN3

Flynn Creek

FC_1

FC_10

FC_11

FC_12

FC_15

FC_2

FC_3

FC_4

FC_5

FC_6

FC_7

FC_8

FC_865MS

FC_9

FC_9 (TRIB3)

FC_9 (TRIBE6)

FC_955MS

FC_G

FC_MS

FC_MS1

FC_MS2 (FC_UN2)

FC_T5 (TRIB5)

FC_T6 (FC_UN1)

FC_UN2

Needle Branch

NB_1

NB_2

NB_3

NB_4

NB_5

NB_6

NB_6B

NB_7

NB_G

NB_H

NB_L

NB_MS

NB_MS68

NB_U

NB_UN1

NB_UN2

NB_UN3

U_NBA

U_NBB

Sampling Frequency:

Measurements were taken at 30-min intervals using Onset TidbiT water temperature data loggers (UTBI-001, Onset Corporation, Bourne, MA; accuracy ± 0.21 C). Prior to deployment each season, data loggers were calibrated against each other and tested for responsiveness in a controlled environment by placing in a slurry of water and ice for 30 min at a high sampling frequency. Loggers that were nonresponsive or recorded temperatures outside of the specifications (i.e., ± 0.21 C) were replaced with new loggers. Temperature sensors were shielded from direct solar radiation by placing in rock cairns with the ends open parallel to stream flow to ensure good mixing.

Reference:

Souder, J. (2020). Alsea Watershed Study 1959-1972 (Version 1) [Dataset]. Oregon State University. <https://doi.org/10.7267/c821gr90d>
Segura* C,* Bladon* K., Hatten* J., Jones* J,* Hale* C,* Ice* G., and Souder* J. (2020). Long-term effects of forest harvesting on summer low flow deficits in the Coast Range of Oregon (Version 1) [Data Set]. Oregon State University. <https://doi.org/10.7267/c821gr99w>
Hatten, J., Segura, C., Bladon, K., Hale, C., Ice, G., Stednick, J. (2020) Discharge and suspended sediment a paired watershed study examining the effects of contemporary forest harvesting in the Oregon Coast Range: Alsea Watershed Study Revisited (Version 1) [Dataset]. Oregon State University. <https://doi.org/10.7267/2z10wx52x>
Bladon, K. D., Cook, N. A., Light, J. T., & Segura, C. (2016). A catchment-scale assessment of stream temperature response to contemporary forest harvesting in the Oregon Coast Range. *Forest Ecology and Management*, 379, 153– 164.<https://doi.org/10.1016/j.foreco.2016.08.021>
Bousquet, T. (2016). Data quality report for the Alsea Watershed Study Revisited water quality measurements. National Council of Air and Stream Improvement INC.

Data Set Usage Rights

Access Control:

Auth System:

knb

Order:

allowFirst

Allow:

[read]

public