

Tree-Ring Research 65(2):163–164.

Items include: Examples of output metadata of $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ data in current ITRDB format, and example of isotope data in TRiDaS.

La Selva HYAL
 Costa Rica *Hyeronima alchorneoides* 40M 1985–2001 1 tree
 core multiple samples/ring alpha cellulose
 Brendel et al. 2000 method Analyzed/collected 2002–2003
 $\delta^{18}\text{O}$ isotope chronology
 M.N. Evans; D.P. Schrag

IGBP PAGES/WDCA CONTRIBUTION SERIES NUMBER: 2007–093

SUGGESTED DATA CITATION: Evans, M.N. and D.P. Schrag. 2007.
 Tropical and Temperate Americas Tree Isotope Data.
 IGBP PAGES/World Data Center for Paleoclimatology
 Data Contribution Series # 2007–093.
 NOAA/NCDC Paleoclimatology Program, Boulder CO, USA.

ORIGINAL REFERENCE: Evans, M.N. and D.P. Schrag. 2004.
 A stable isotope-based approach to tropical dendroclimatology.
Geochimica et Cosmochimica Acta, Vol. 68, Issue 16, pp. 3295–3305,
 15 August 2004. doi:10.1016/j.gca.2004.01.006.

DESCRIPTION:
 Tropical and Temperate Americas Tree Isotope Data

Lat. Lon. Elev. Environment Age Information
 10°N 84°W 40 m wet tropical plantation

DATA PRECISION (1 STANDARD DEVIATION):

Depth: ± 0.2 mm
 $\delta^{18}\text{O}$: ± 0.3 permil (analytical)

Age Model: ± 5 years

Tree Isotope Data, La Selva, Costa Rica

Column 1: Depth (mm), with 0 arbitrarily set to most recent tree growth
 Column 2: Years, based on age model described in Evans and Schrag (2004)
 Column 3: $\delta^{18}\text{O}$, per mil, relative to Standard Mean Ocean Water (SMOW)

Depth	Year	$\delta^{18}\text{O}$
0.20	2001.29	28.75
0.60	2001.23	28.74
1.40	2001.17	28.99
2.60	2001.11	30.94
3.80	2001.05	27.85
4.20	2000.99	27.96

Strathcona Fiord, NU LAGR
 Canada *Larix groenlandii* 364M undated 203 rings 1 tree
 disk 3 samples/ring Loader et al. 1997 method
 Analyzed/collected 2004 U of Sask. isotope lab. $\delta^{13}\text{C}$ no chronology
 No Suess correction
 A.Z Csank

ORIGINAL REFERENCE: Csank, A.Z., Patterson, W.P., Eglington, B., Basinger, J.F. in review. Boreal climate variability during the Pliocene: evidence from stable isotope values of sub-fossil wood, Ellesmere Island, Canada. *Palaeogeography, Palaeoecology, Palaeoclimatology*.

DESCRIPTION:
 Sub fossil wood of Pliocene age (4–5 mya) from Ellesmere Island in the Canadian Arctic

Lat. Lon. Elev. Environment Age Information
 78.33°N 81.9°W 364m Boreal Pliocene (4–5 mya)
 see Tedford and Harington, 2003

DATA PRECISION (1 STANDARD DEVIATION):

$\delta^{18}\text{O}$: ± 0.3 permil (analytical)
 $\delta^{13}\text{C}$: ± 0.2 permil (analytical)
 $\delta^2\text{H}$: ± 1.5 permil (analytical)

DATA:

Column 1: ring, with 1 arbitrarily set as the center-most ring a value of .5 after the ring number signifies a latewood sample.
 Column 2: $\delta^{13}\text{C}$, mean of 2–3 replicates, per mil, relative to Vienna Pee-Dee Belemnite (VPDB)

1	-23.09
2	-22.31
3	-22.66
3.5	-23.36
4	-22.88
5	-22.29
6	-22.76
7	-23.06
8	-22.41
9	-21.98

Project

Title: Strathcona Fiord, Pliocene
type: Isotope series
laboratory: Saskatchewan Isotope Laboratory, University of Saskatchewan, SK, Canada
category: dendroclimatology
investigator: Adam Csank
period: Sept. 2004-May 2006
reference: Csank, A.Z., Patterson, W.P., Eglington, B., Basinger, J.F. in review. Boreal climate variability during the Pliocene: evidence from stable isotope values of sub-fossil wood, Ellesmere Island, Canada. *Palaeogeography, Palaeoecology, Palaeoclimatology*.

Object

Title: STA-04-001
Type: sub-fossil trunk

Element

Title: STA-04-001
Taxon: Larix Groenlandii

Authenticity: Dated to 4-5 mya via biostratigraphy (see Tedford and Harrington, 2003)

Location: Strathcona Fiord, Ellesmere Island, 78.33°N 81.9°W

Processing: α -cellulose after Loader et al. 1997

Altitude: 385m

Soil: peat

Sample

Title: $\delta^{18}\text{O}$ series STA-04-001

Comments: no chronology/ undated series

Type: $\delta^{18}\text{O}$ series

Position: 3 samples per ring

State: single tree

WoodCompleteness

Pith: absent

Heartwood: absent

Sapwood: unknown

Bark: absent

MeasurementSeries

Title: $\delta^{18}\text{O}$ series

MeasuringMethod: on-line combustion via TC/EA

Generic Field: Data precision (1 σ), +/- 0.3 %

Values:

variable: ring unitless: variable: $\delta^{18}\text{O}$ unit: permil (VSMOW)

<i>value: 1</i>	15.92
2	19.45
3	21.52
4	21.29
5	20.56
6	20.35
7	20.77
8	21.77