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St-Onge, G., Stoner, J.S., Hillaire-Marcel, C., 2003. Holocene paleomagnetic records from the St. Lawrence Estuary, Eastern Canada: centennial- to millennial-scale geomagnetic modulation of cosmogenic isotopes. *Earth and Planetary Science Letters* 209, 113-130.

St-Onge, G., Mulder, T., Piper, D.J.W., Hillaire-Marcel, C., Stoner, J.S. in press. Earthquake and flood-induced turbidites in the Saguenay Fjord (Quebec): a Holocene paleoseismicity record. *Quaternary Science Reviews*.

St-Onge, G., 2004. Magnetic and sedimentological properties of Holocene sequences from the St. Lawrence Estuary and the Saguenay Fjord, Canada. Ph.D. thesis, Université du Québec à Montréal, Montréal, Québec.

**Data format:** The entire raw dataset from each core is saved on a Microsoft Excell worksheet (2220.xls, 2221.xls, 2222.xls and BC2220.xls), with the different analyses on different sheets. Each analysis was also saved as an individual tab delimited text (.txt) file with the core number written before the analysis (e.g., 2220\_Rock mag.txt is the file containing the raw rock-magnetic data for core 2220).

Also included are the component inclination (INC), declination (DEC) and relative paleointensity (RPI) data for core 2220 on the two age models (corrected <sup>14</sup>C years BP, calibrated years BP) discussed in the St-Onge *et al.* (2003) article. Again, all the data are included in one Microsoft Excell worksheet (St\_Onge et al\_EPSL2003.xls), with the different analyses on different sheets. Each analysis was also saved as an individual tab delimited text (.txt) file (St\_Onge et al\_INC\_EPSL2003.txt, St\_Onge et al\_DEC\_EPSL2003.txt, St\_Onge et al\_RPI\_EPSL2003.txt).

## **Dataset legend**

### *1) Rock-mag*

NRM: Natural Remanent Magnetization

D: Declination (°)

I: Inclination (°)

J: intensity (A/m)

(demagnetization step in mT): For exemple, D(30) is the declination after demagnetization at 30 mT

ARM: Anhysteretic Remanent Magnetization (A/m)

IRM: Isothermal Remanent Magnetization (A/m)

k: Magnetic susceptibility

### *2) PCA (Principal Component Analysis)*

INC: Inclination (°)

DEC: Declination (°)

MAD: Maximum Angular Deviation (°)

### 3) *MicroMag*

Mr: Saturation remanence

Ms: Saturation magnetization

Hc: Coercive force

Hcr: Coercivity of the remanence

### 4) *Grain size*

- The grain size data from cores 2220 and BC-2220 were obtained on a Coulter Counter TAIL analyser at the Geological Survey of Canada and processed with the Gradistat software (Blott and Pye, 2001).
- The grain size data from core 2221 were obtained from a Fritsch Analysette 22 laser diffraction analyser at the INRS-ETE in Quebec City.
- The grain size data from core 2222 were obtained on a Malvern Multisizer 'S' laser diffraction analyzer and processed with the Gradistat software (Blott and Pye, 2001).

### 5) *MSCL (Multi Sensor Core Logger)*

These data were obtained on-board the *Marion Dufresne II* on a GEOTEK MSCL.

PV: P-Wave

### 6) *Reflectance*

These data were obtained on-board the *Marion Dufresne II* using a hand-held Minolta spectrophotometer.

### 7) $^{210}\text{Pb}$

The  $^{210}\text{Pb}_{\text{excess}}$  activity was determined by subtracting the supported value of 1.0 dpm/g (Zhang, 2000).

### 8) $\text{CaCO}_3$

$\text{CaCO}_3$  contents were analyzed with an automatic Bernard calcimeter at the Université de Bordeaux 1.

## References

- Blott, S.J., Pye, K., 2001. Gradistat: A grain size distribution and statistics package for the analysis of unconsolidated sediments. *Earth Surface Processes and Landforms* 26, 1237-1248.
- St-Onge, G., Stoner, J.S., Hillaire-Marcel, C., 2003. Holocene paleomagnetic records from the St. Lawrence Estuary, Eastern Canada: centennial- to millennial-scale geomagnetic modulation of cosmogenic isotopes. *Earth and Planetary Science Letters* 209, 113-130.
- Zhang, D., 2000. Flux de radio-isotopes à courte période dans les bassins marins marginaux de l'est canadien. Ph.D. thesis, Université du Québec à Montréal, Montréal, Québec.

**Contact information:** for more information, you can reach me at the below coordinates.

Guillaume St-Onge  
INRS-ETE  
C.P.7500  
Sainte-Foy, Québec, Canada, G1V 4C7  
Phone: 418-654-3704  
Fax : 418-654-2615  
E-mail: [guillaume\\_st-onge@inrs-ete.quebec.ca](mailto:guillaume_st-onge@inrs-ete.quebec.ca)

Or, contact my Ph.D. supervisor at the below coordinates to obtain my most recent address.

Dr. Claude Hillaire-Marcel  
GEOTOP-UQÀM-McGill  
C.P. 8888, Succ. Centre-Ville  
Montréal, Québec, H3C 3P8  
Phone: 514-987-4630 or 514-987-4080  
Fax: 514-987-3635,  
E-mail: [chm@uqam.ca](mailto:chm@uqam.ca)