



# Peat Bog Archives of Atmospheric Metal Deposition: Flin Flon, Manitoba

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# OUTLINE



- INTRODUCTION AND BACKGROUND

- SUMMARY OF PREVIOUS REPORT (Cu, Ni, Zn, Pb, Ti)

- <sup>210</sup>Pb age dating

- ISOTOPIC COMPOSITION OF PB

**MERCURY**

**CADMIUM**

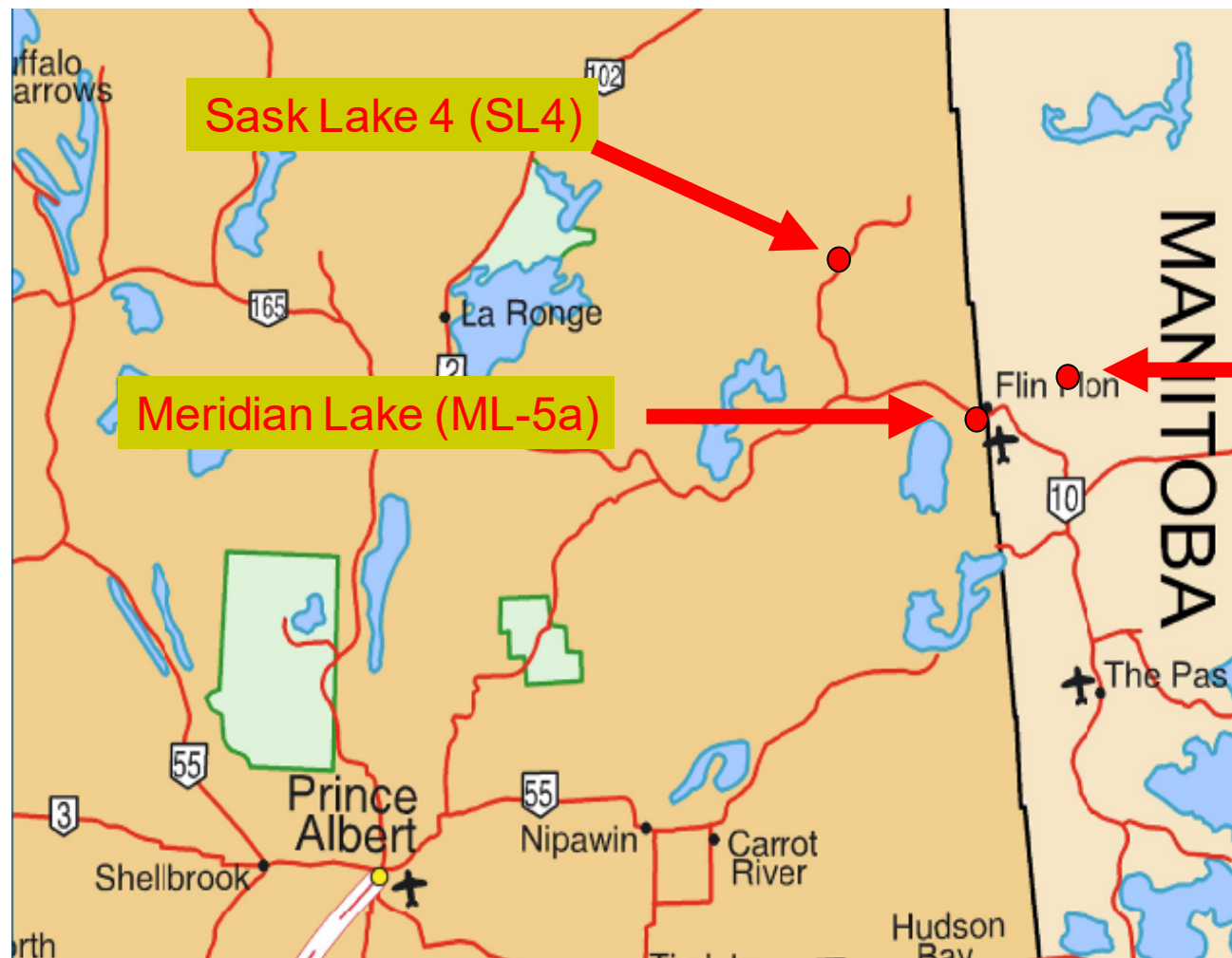
(Sb, Bi, Tl, Ag, As, Ge)

(Co, V)

(Sc)



Flin Flon, Manitoba.... named after the fictious hero *Flintabbetty Flonatin*



Kotyk Lake (KOL-27)

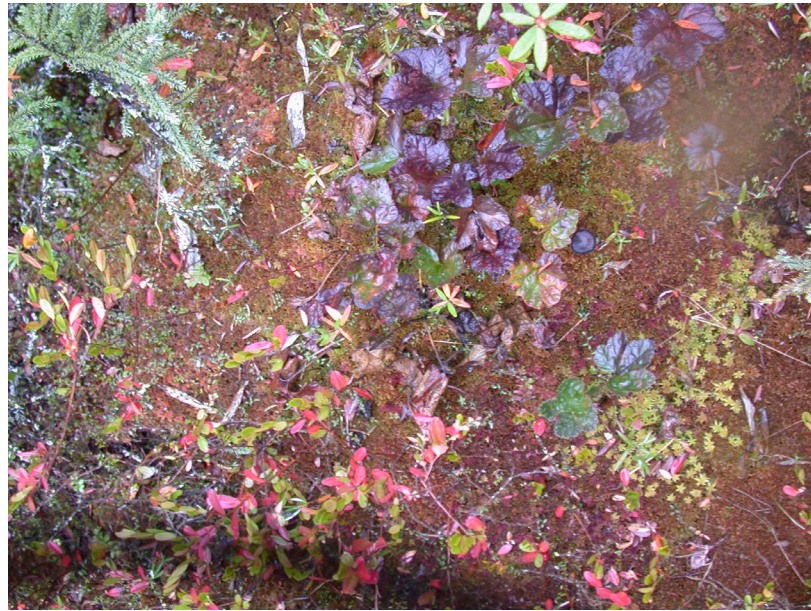




# Kotyk Lake (30 km)



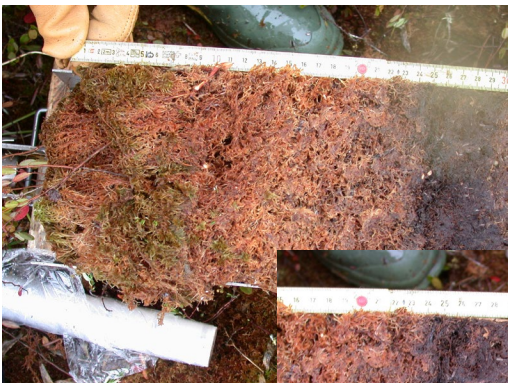




Kotyk Lake, 30 km NE from Flin Flon





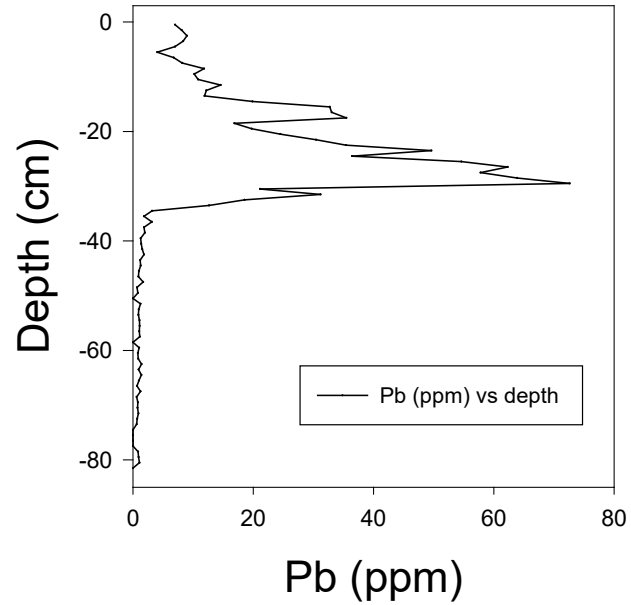


25 – 30 cm

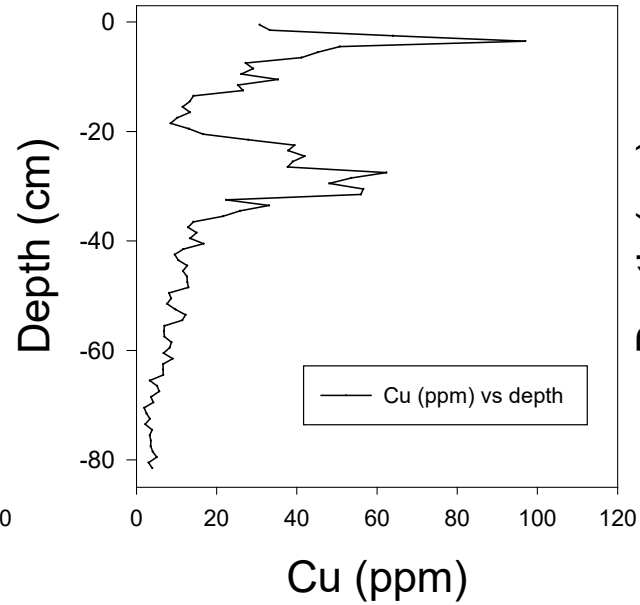




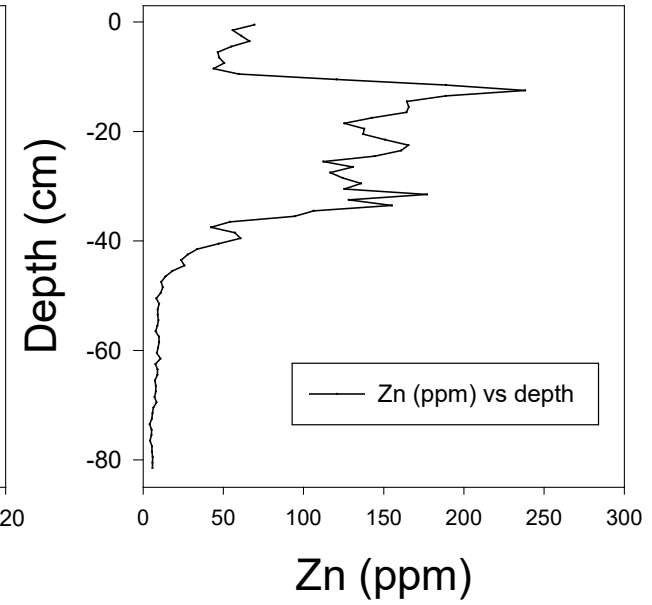
## LEAD



## COPPER



## ZINC



# KOTYK LAKE





# Sask Lake 4 Site 1 (88 km)

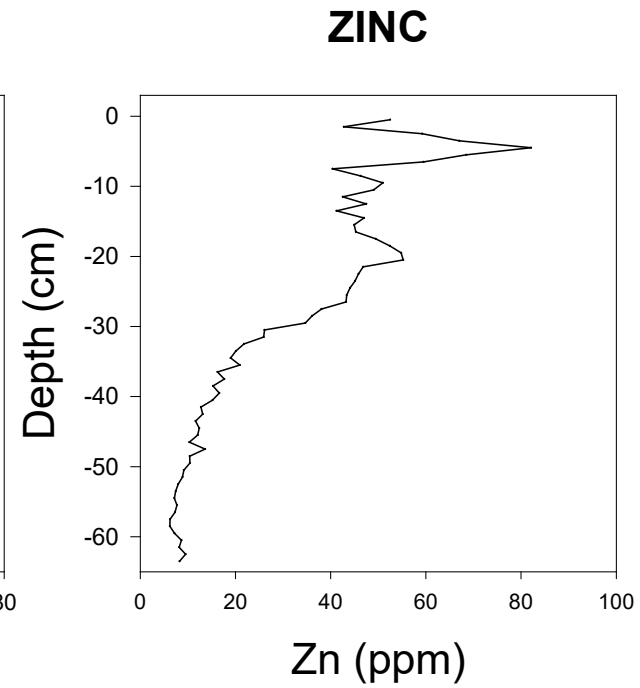
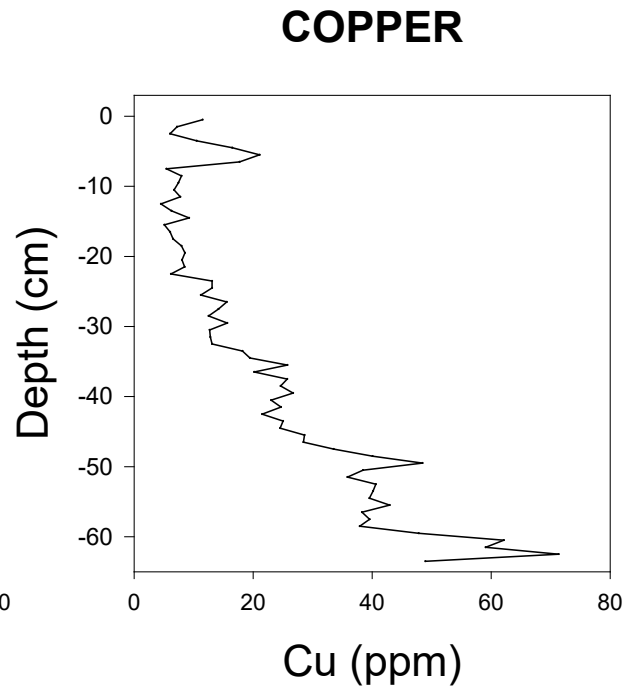
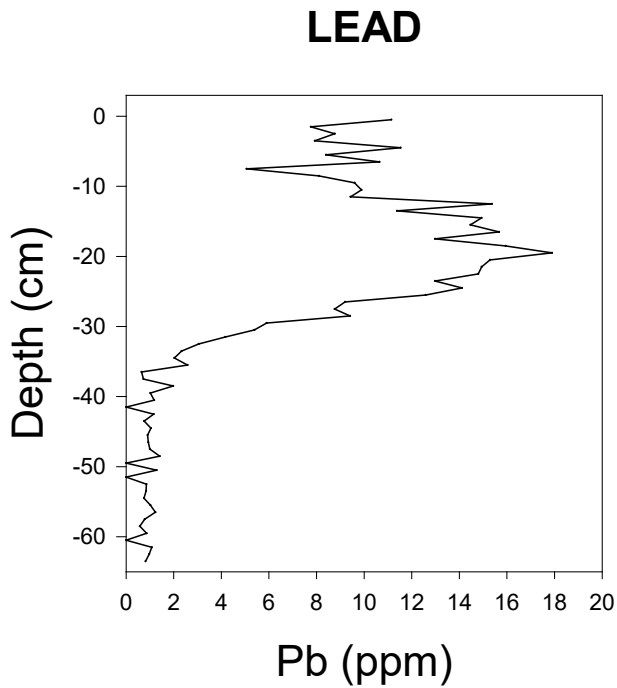












**SASK LAKE 4, SITE 1**

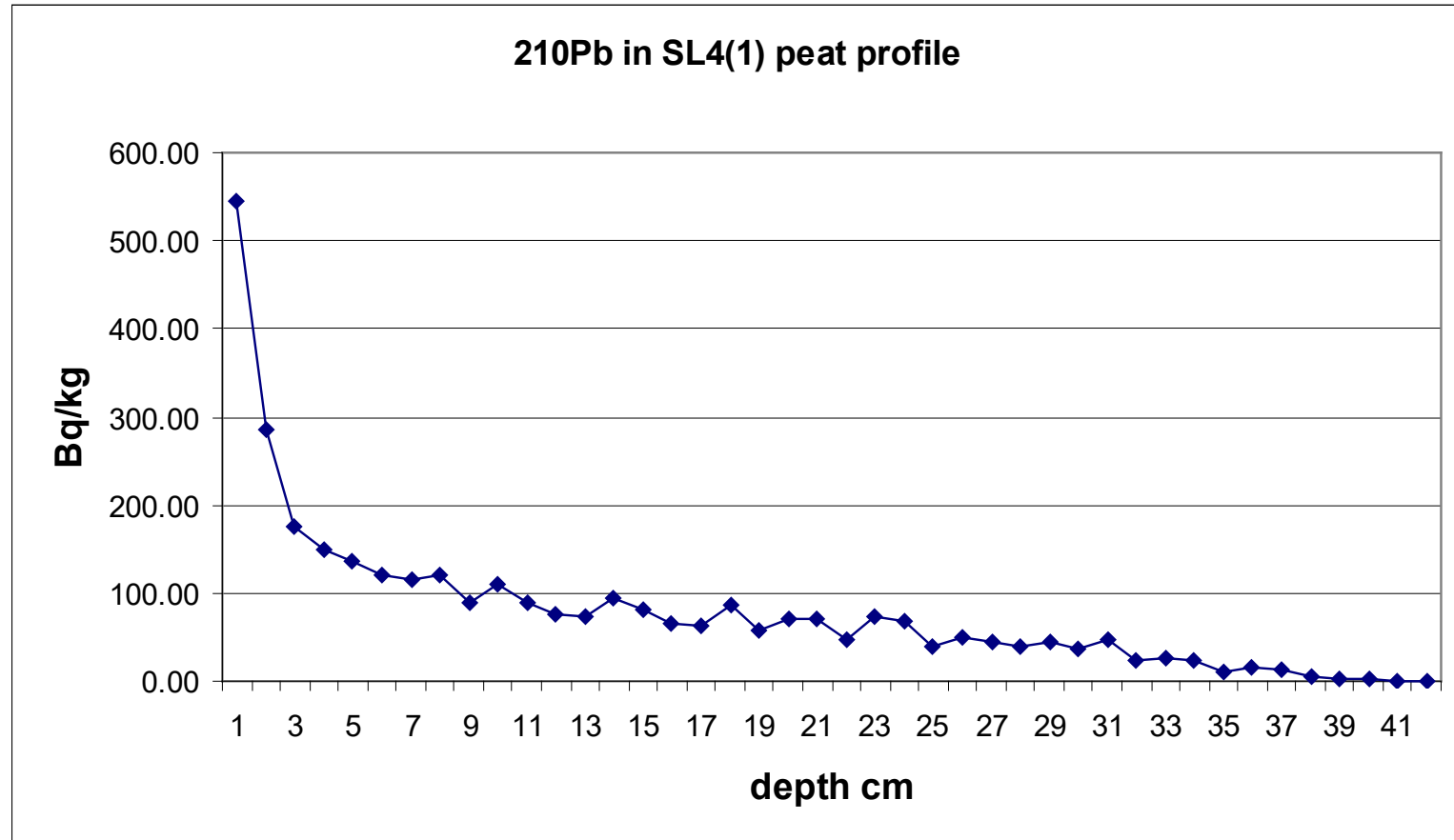
# WORLDWIDE ZINC RESEARCH



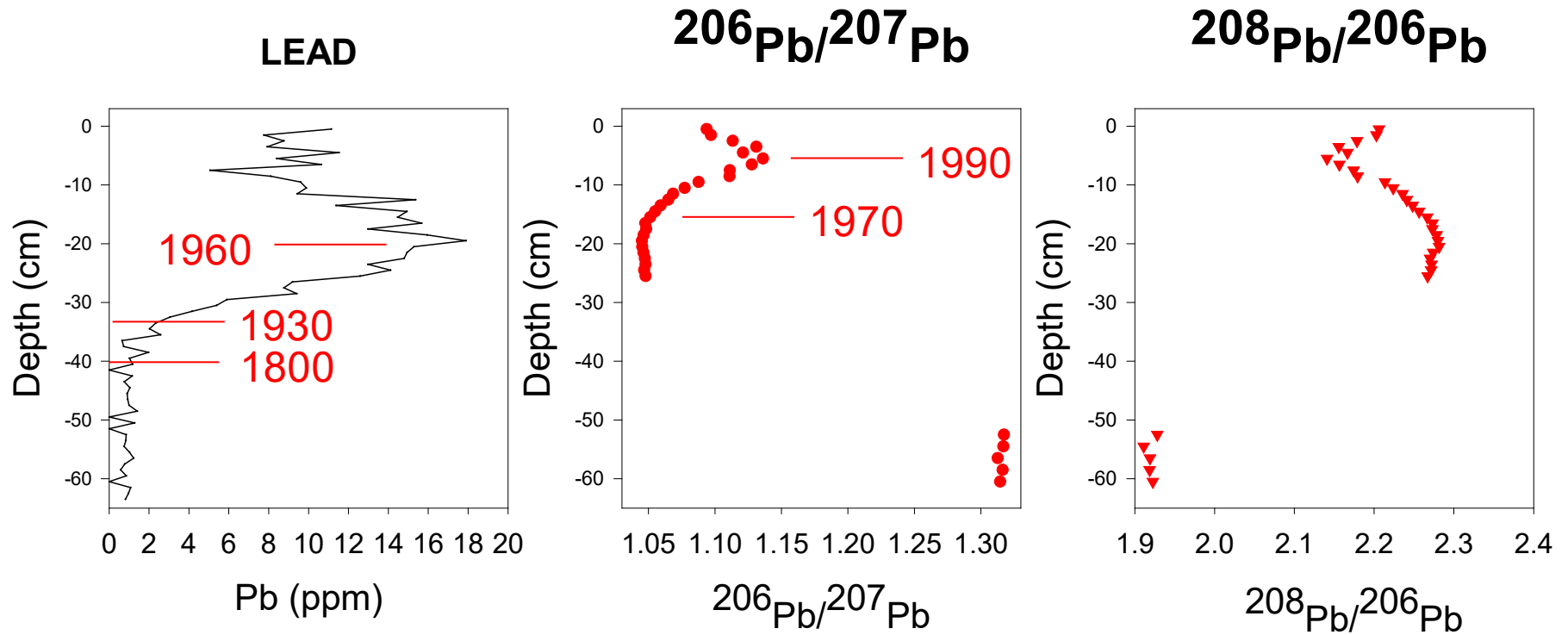
- $^{210}\text{Pb}$  age dating and age-depth modelling
- ISOTOPIC COMPOSITION OF PB
- MERCURY !



## Distribution of $^{210}\text{Pb}$ , SASK LAKE Peat Profile

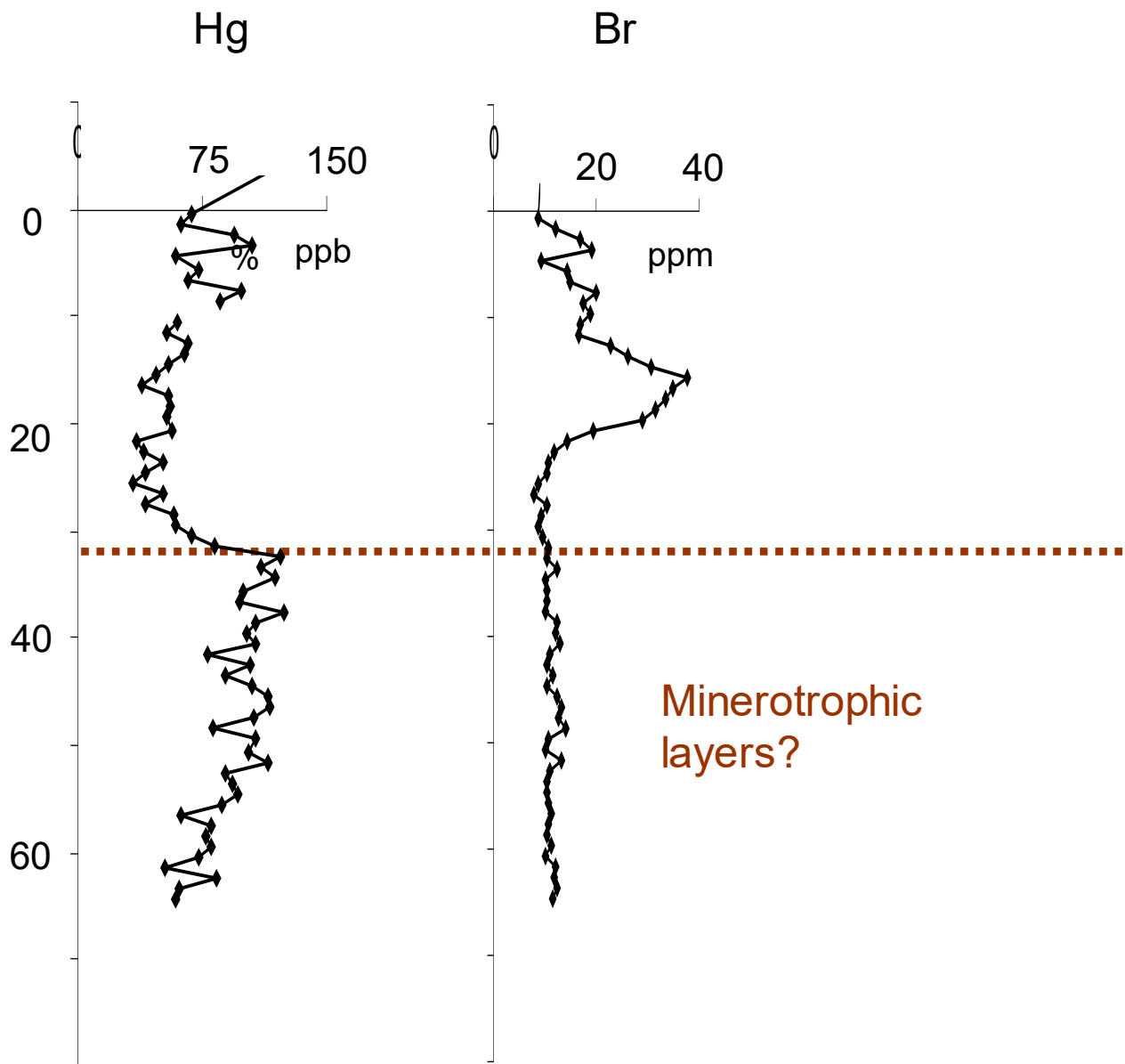






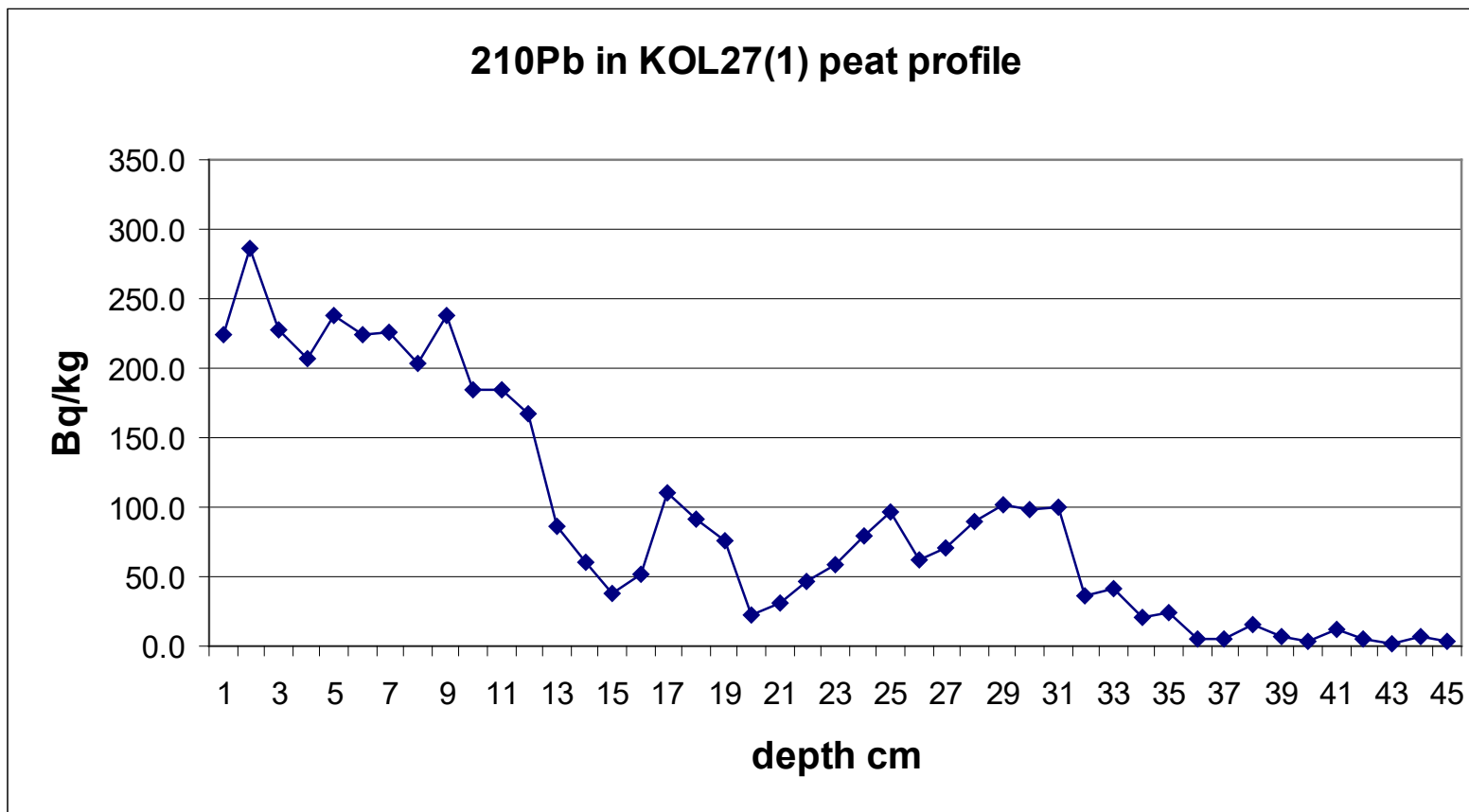
**SASK LAKE 4, SITE 1**

# Sask Lake - Site 1: Hg

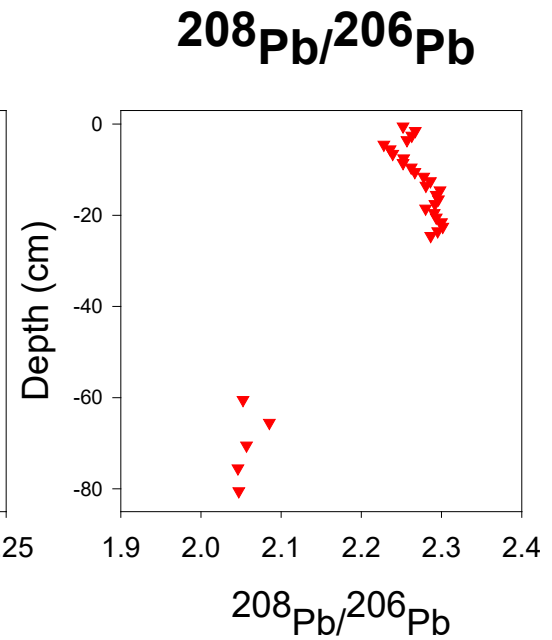
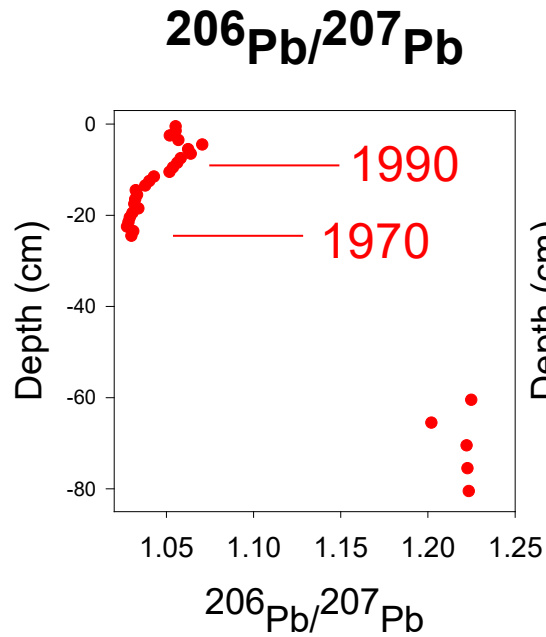
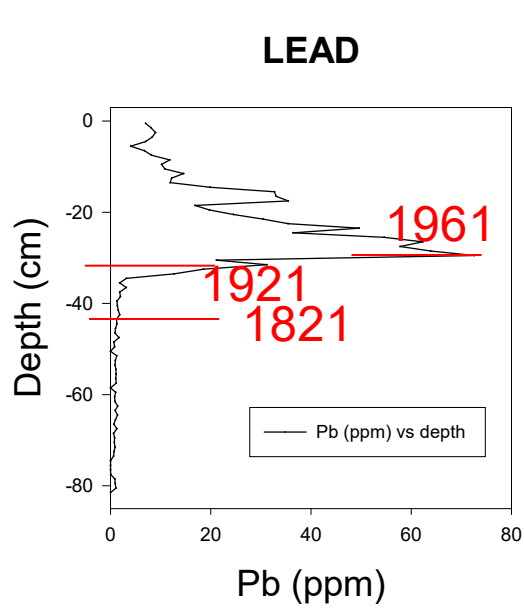




## Distribution of $^{210}\text{Pb}$ , KOTYK LAKE Peat Profile

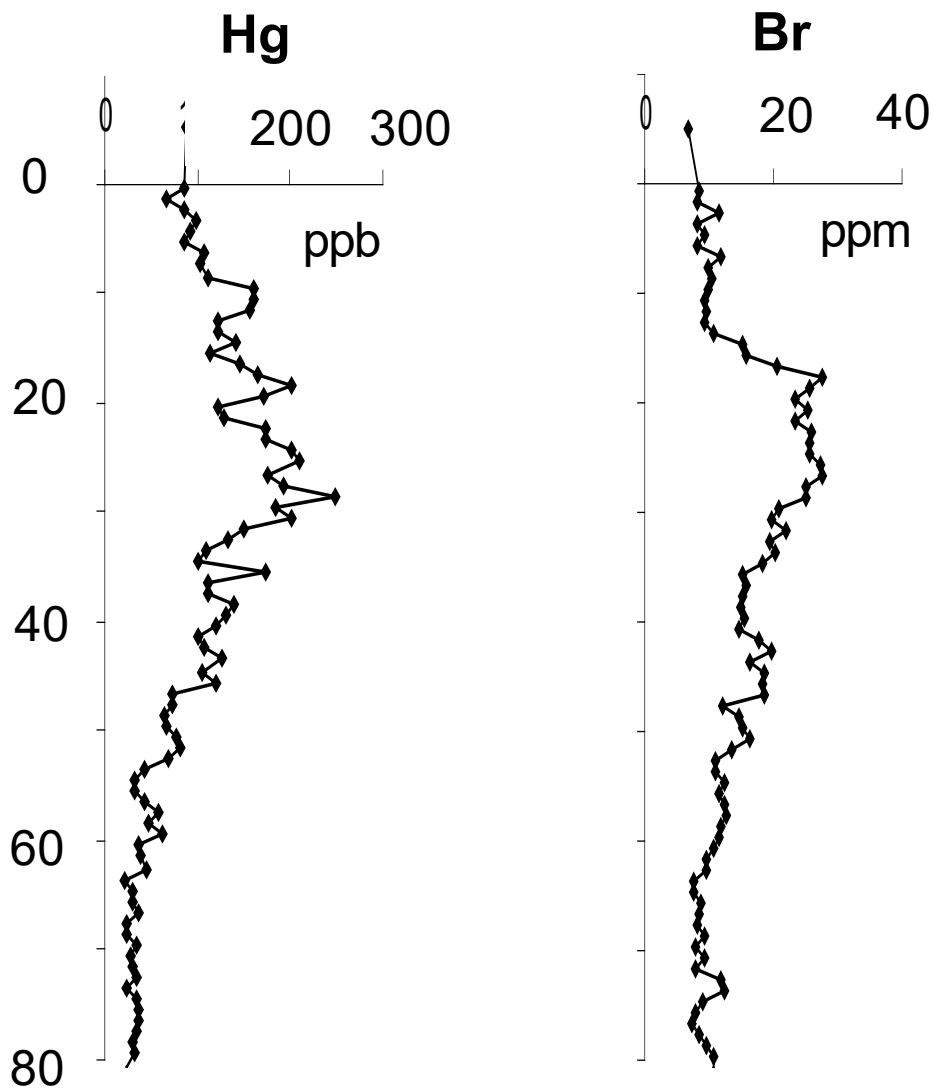






**KOTYK LAKE**

# Kotyk Lake – Hg





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