

EXEMPLARY ALTERATION OF CHEMICAL PROXY RECORD

KEY FACTORS FOR ELUTION BEHAVIOR



HIATUS

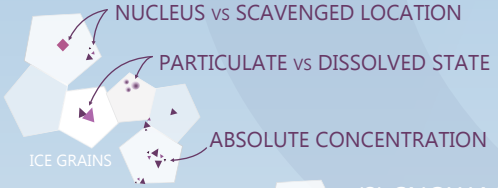
CONCENTRATION

PRE-MELTING
SIGNATURE

POST-MELTING:

- RELOCATED PEAK
- REDUCED CONCENTRATION & SEASONAL AMPLITUDE
- PRESERVATION BIAS

(1) INITIAL CHEMICAL CONDITIONS



(2) SNOW METAMORPHISM

POSITION OF IMPURITIES
WITHIN THE GRAIN NETWORK
CHANGES WITH TIME, DEPENDING ON:

- SOLUBILITY IN ICE
- VOLATILITY
- TEMPERATURE GRADIENT

ROUNDED vs HOAR
CRYSTALS

(3) MELT PROCESS

- MELTWATER FLOW TYPE
- MELT RATE
- RAIN ON SNOW
- REFREEZING IN DEEPER LAYER OR DRAINING

IONIC PULSE

ANNUAL SNOW LAYER

