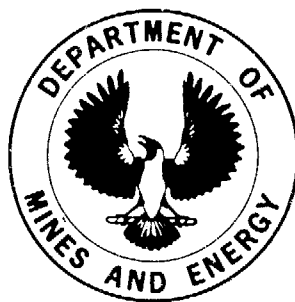


DEPARTMENT OF MINES AND ENERGY

SOUTH AUSTRALIA



OPEN FILE ENVELOPE SERIES

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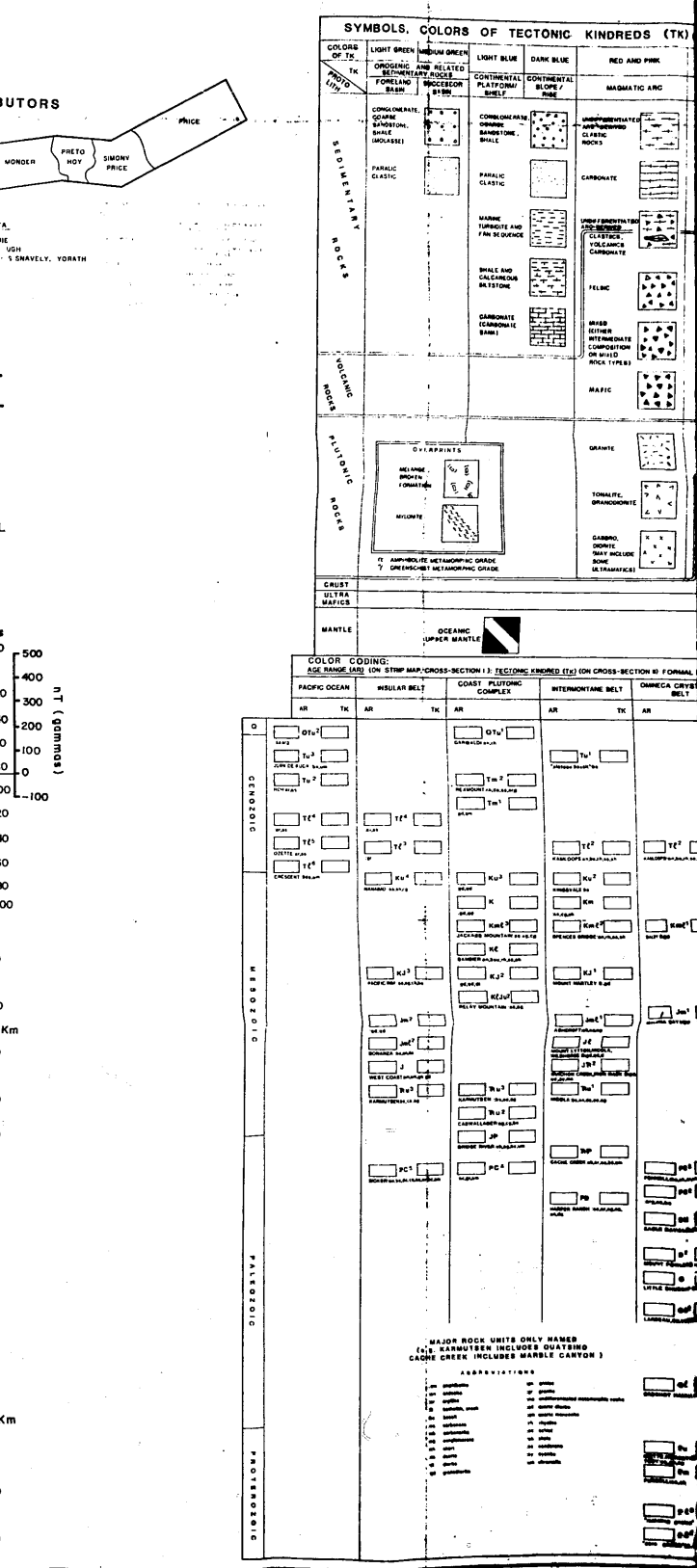
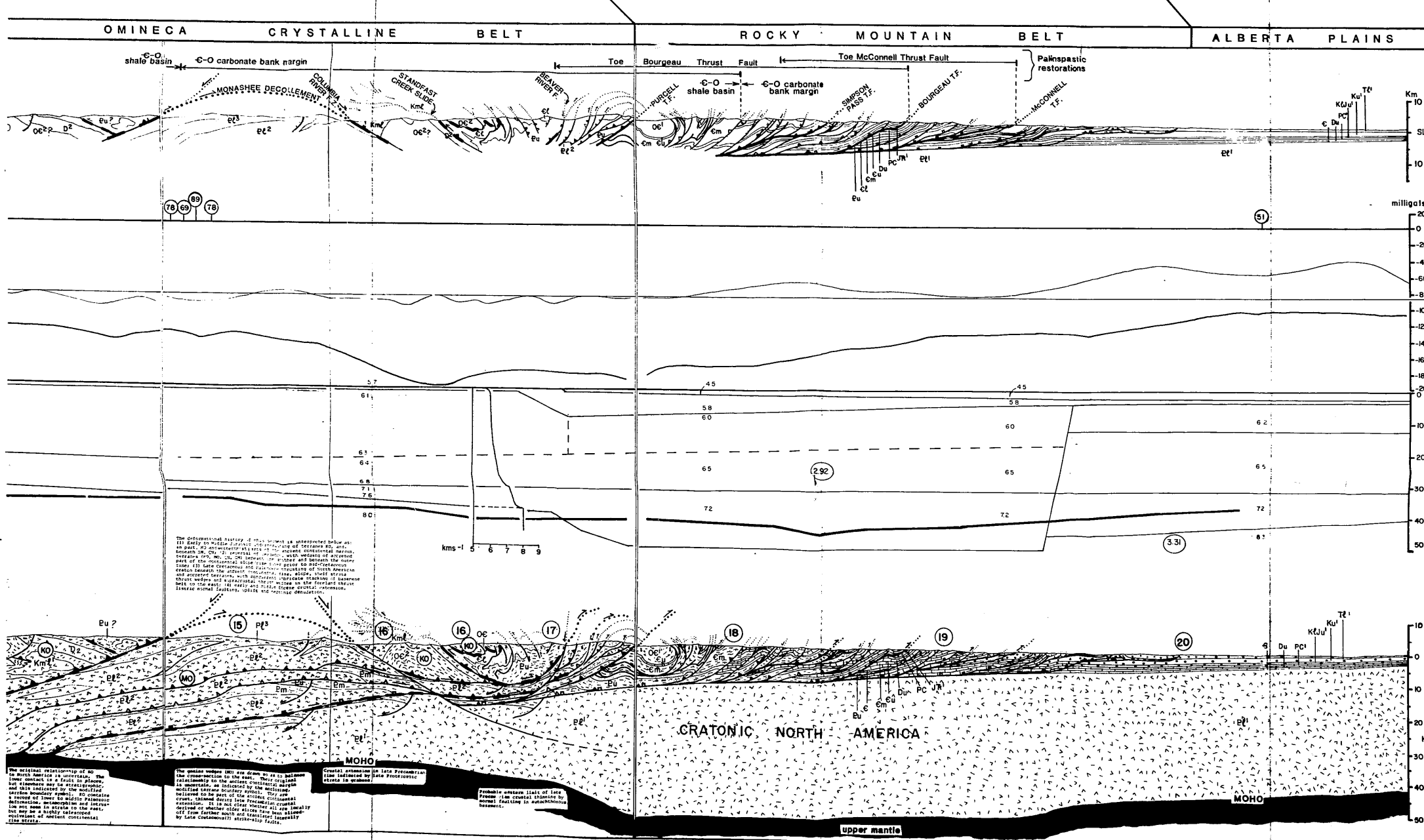
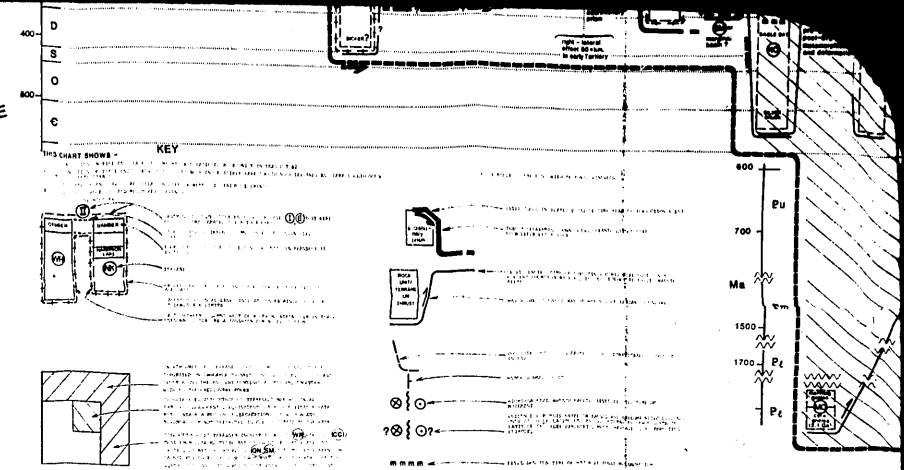
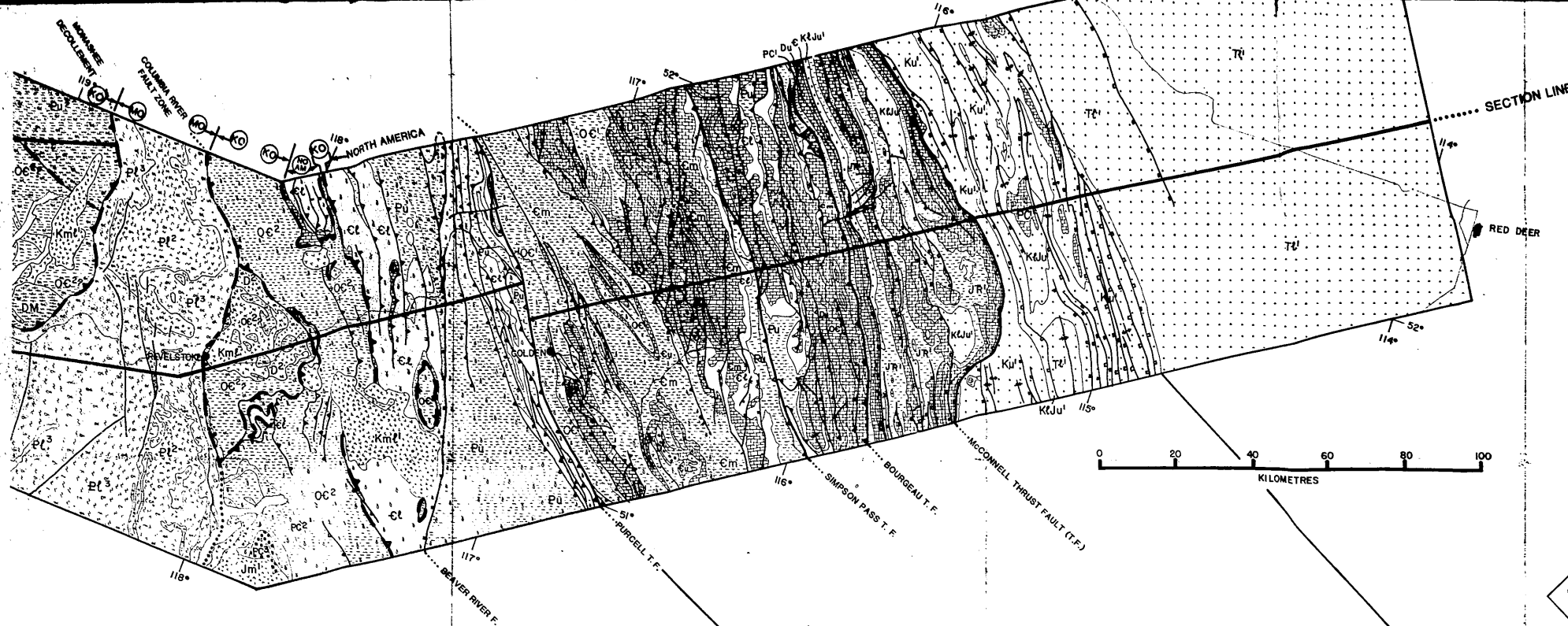
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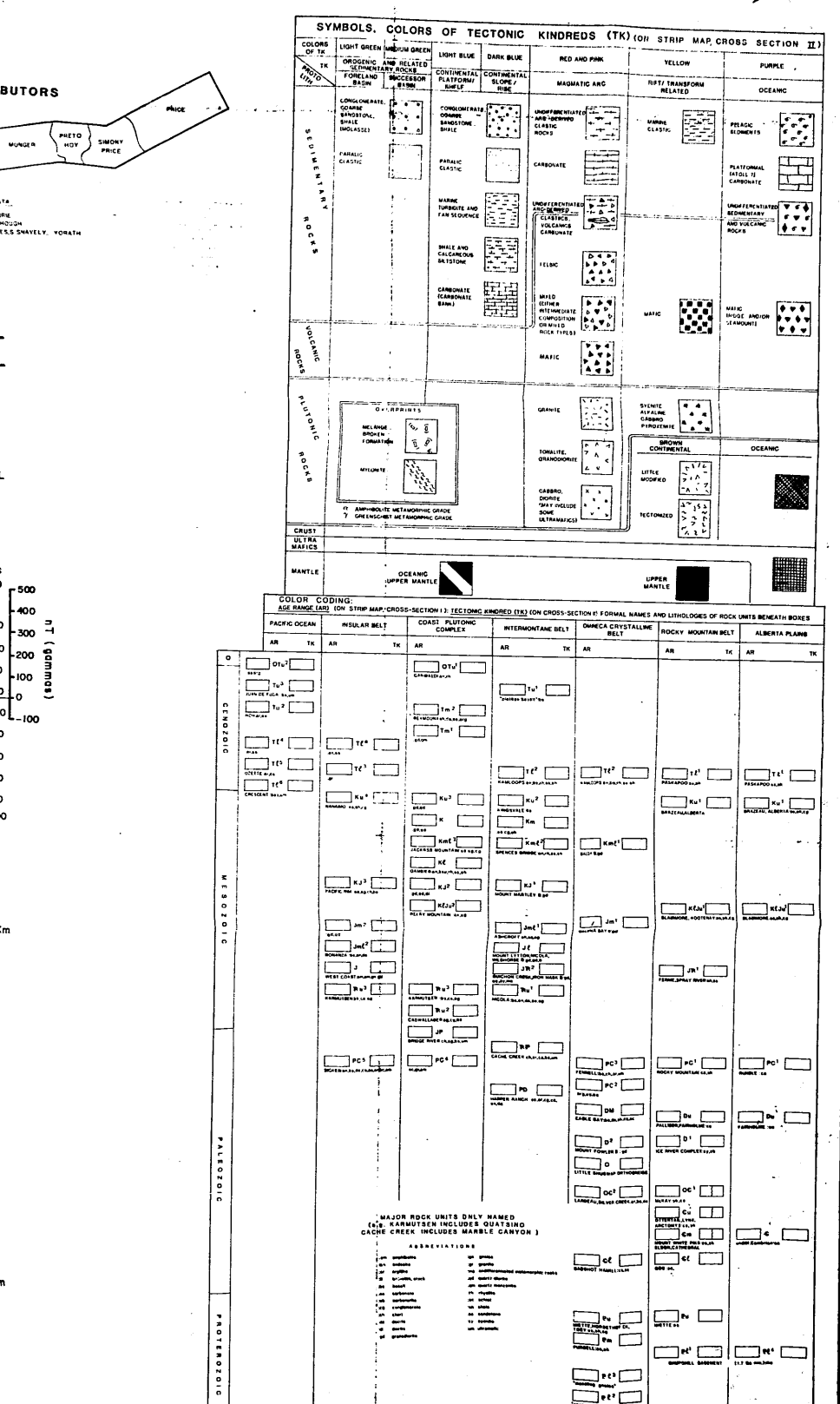
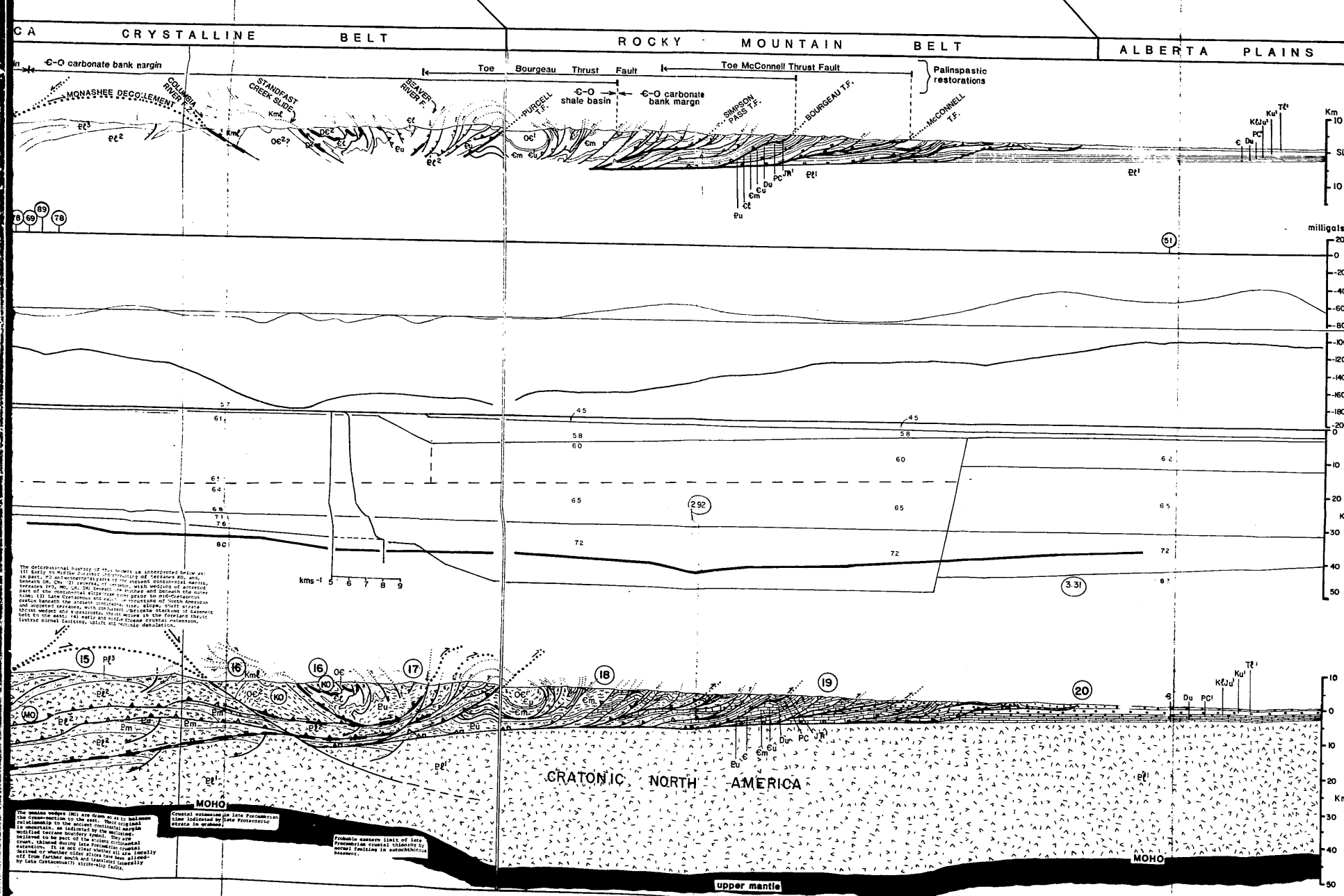
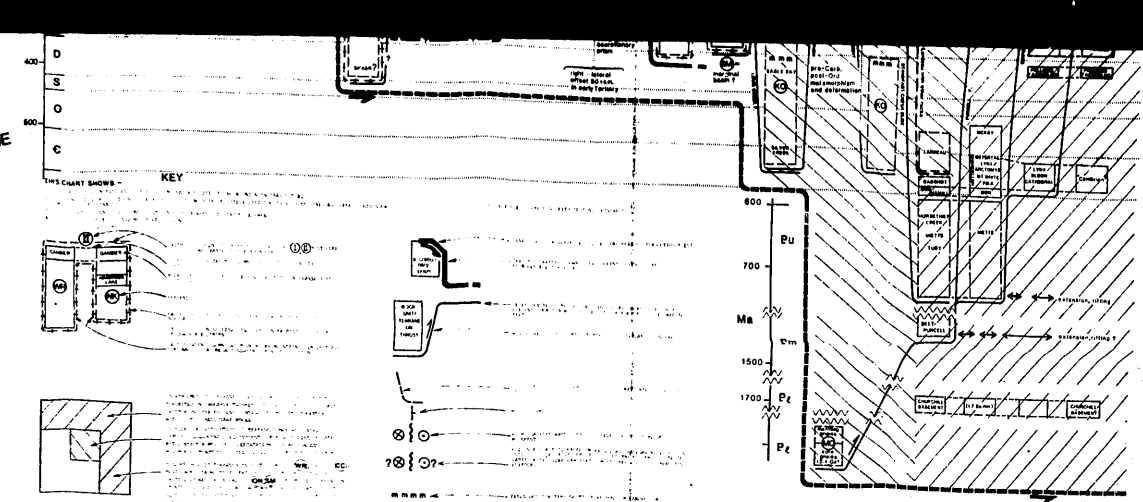
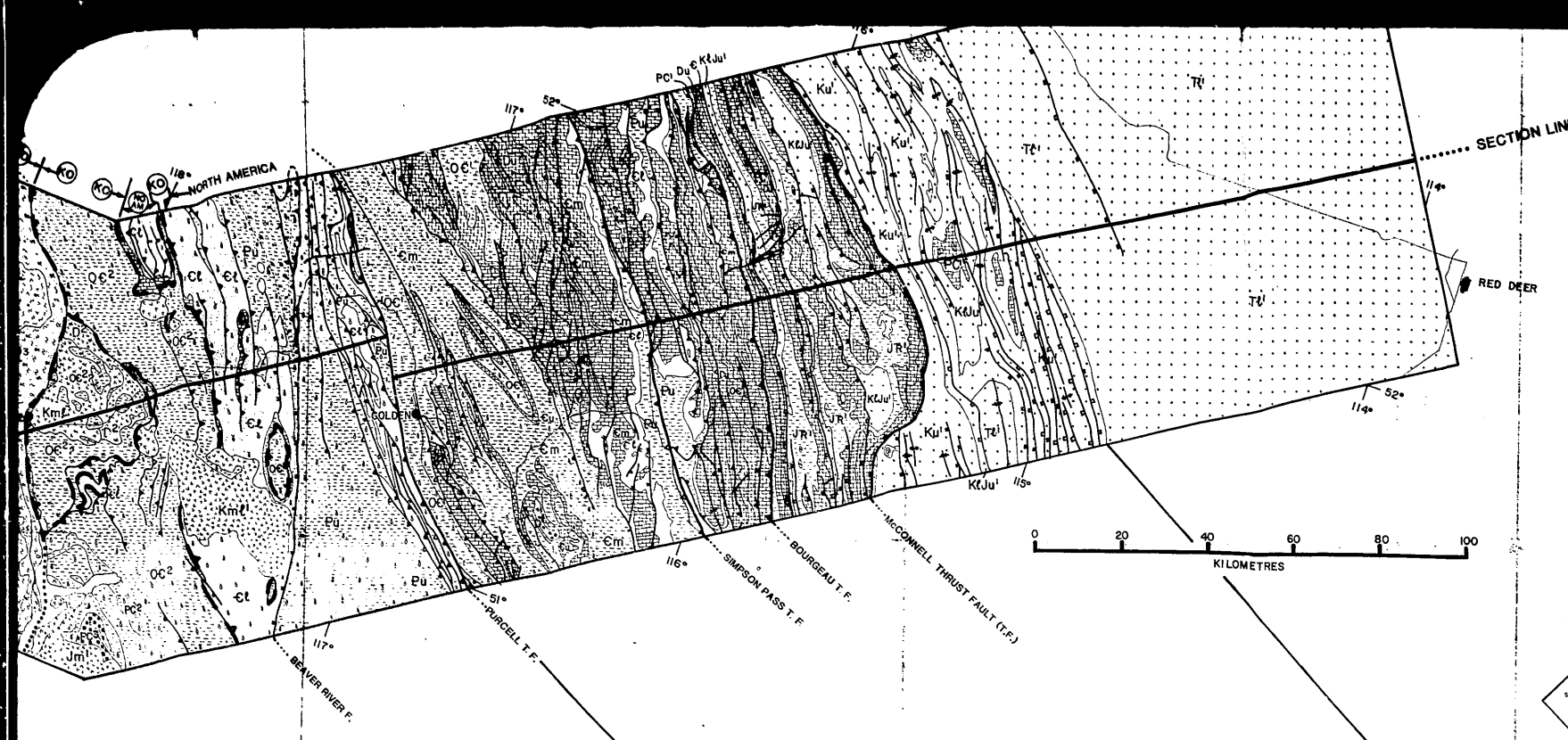
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TENEMENT HOLDER: Not Related.

REPORT: Non Existent.

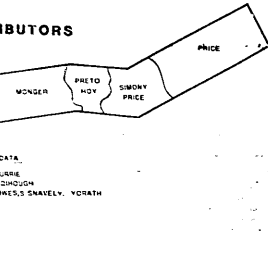
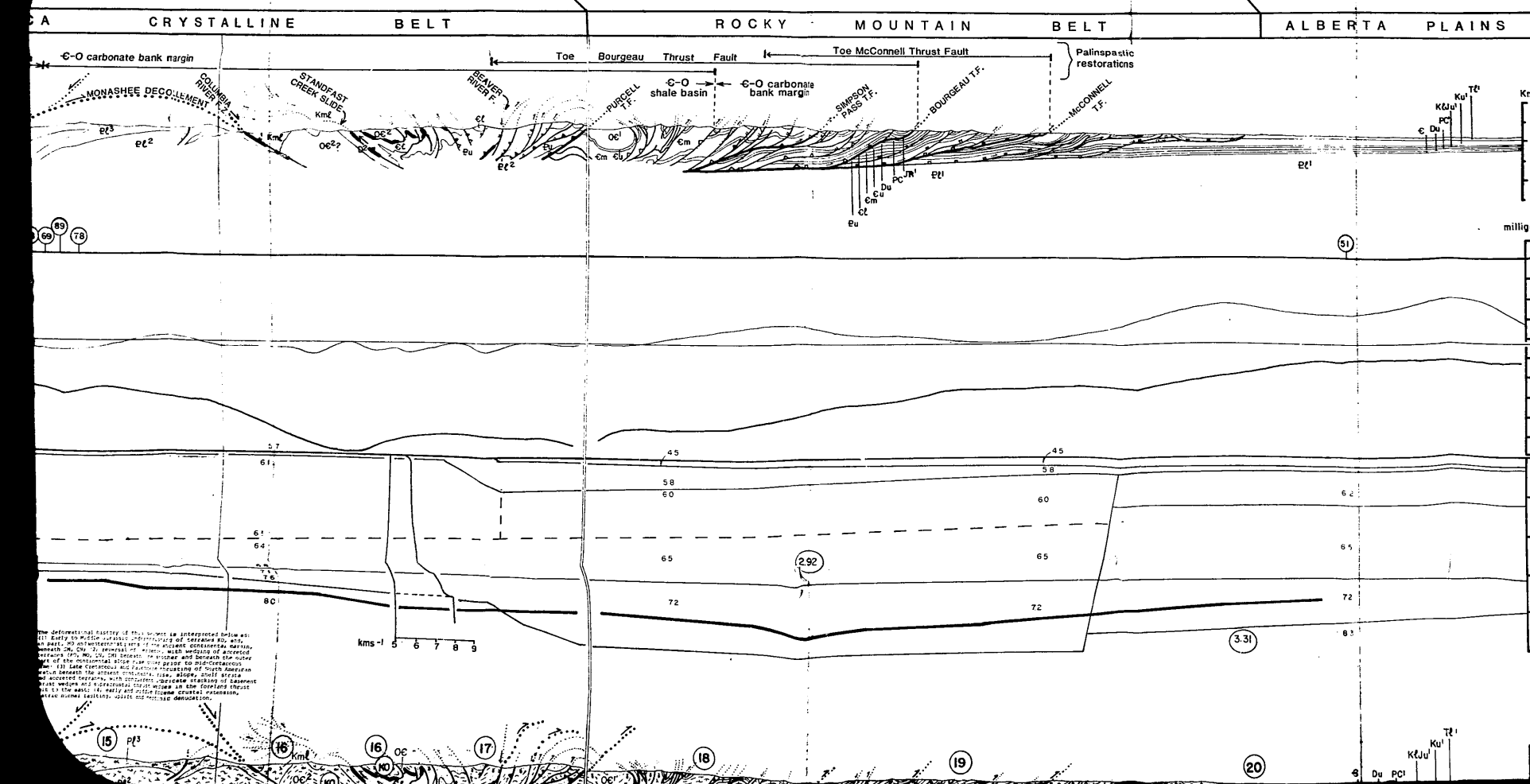
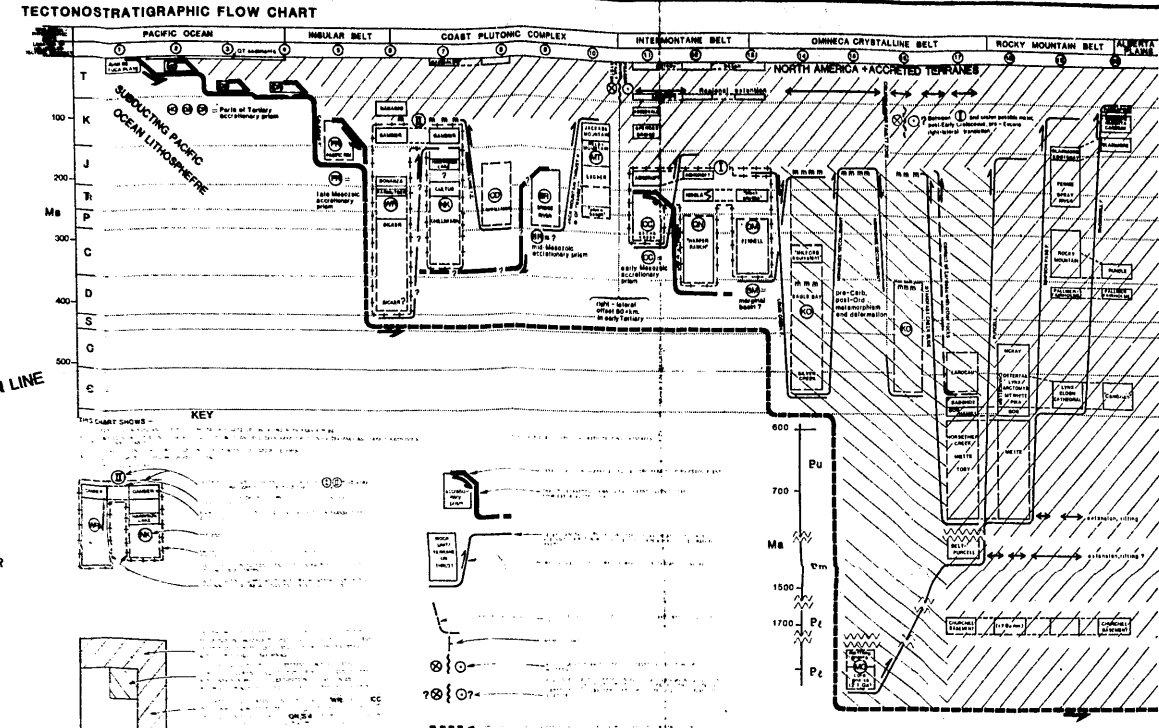
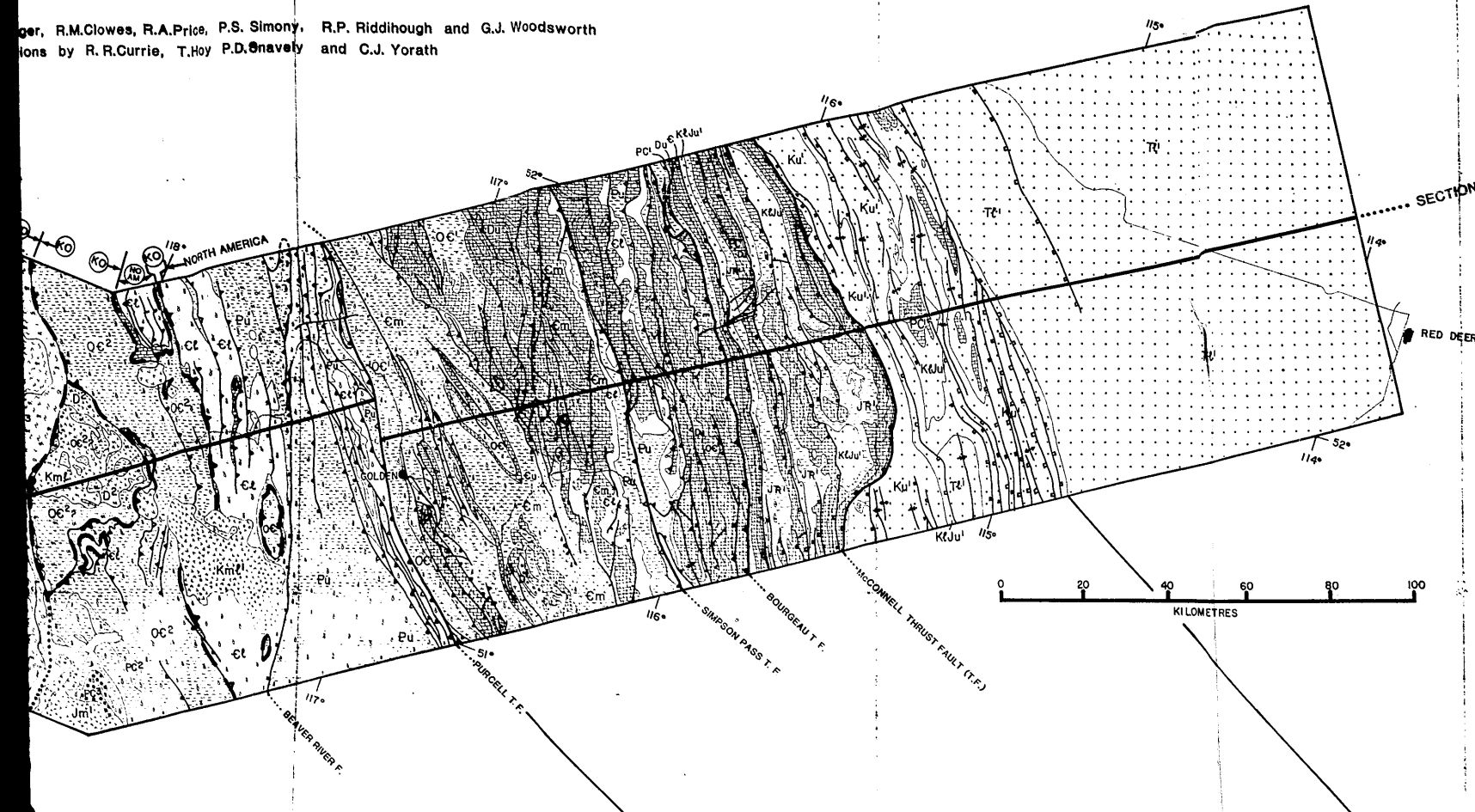
PLANS: Strip Map & Cross Sections 1 & 2. Sheet 1 of 2. 6801-1
Transect B2.
Continent: Ocean Transect B2 Juan De Fuca Plate To Alberta 6801-2
Plains. Sheet 2 of 2.





CONTINENT: OCEAN TRANSECT B2 N DE FUCA PLATE TO ALBERTA PLAINS

ger, R.M.Clowes, R.A.Pric, P.S. Simony, R.P. Riddihough and G.J. Woodsworth
ions by R.R.Currie, T.Hoy P.D. Snavey and C.J. Yorath



SYMBOLS, COLORS OF TECTONIC KINDREDS (TK) (ON STRIP MAP, CROSS SECTION II)

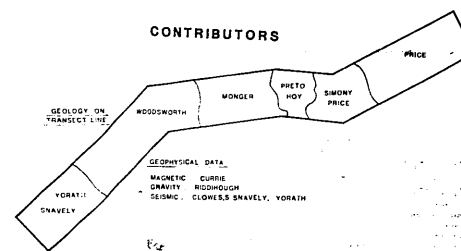
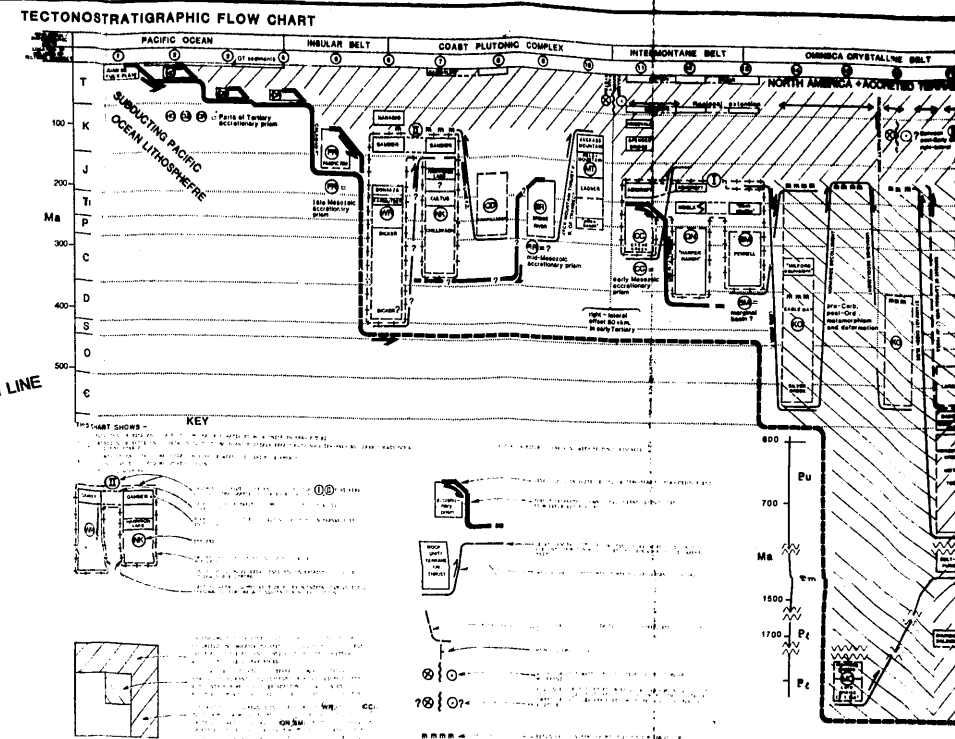
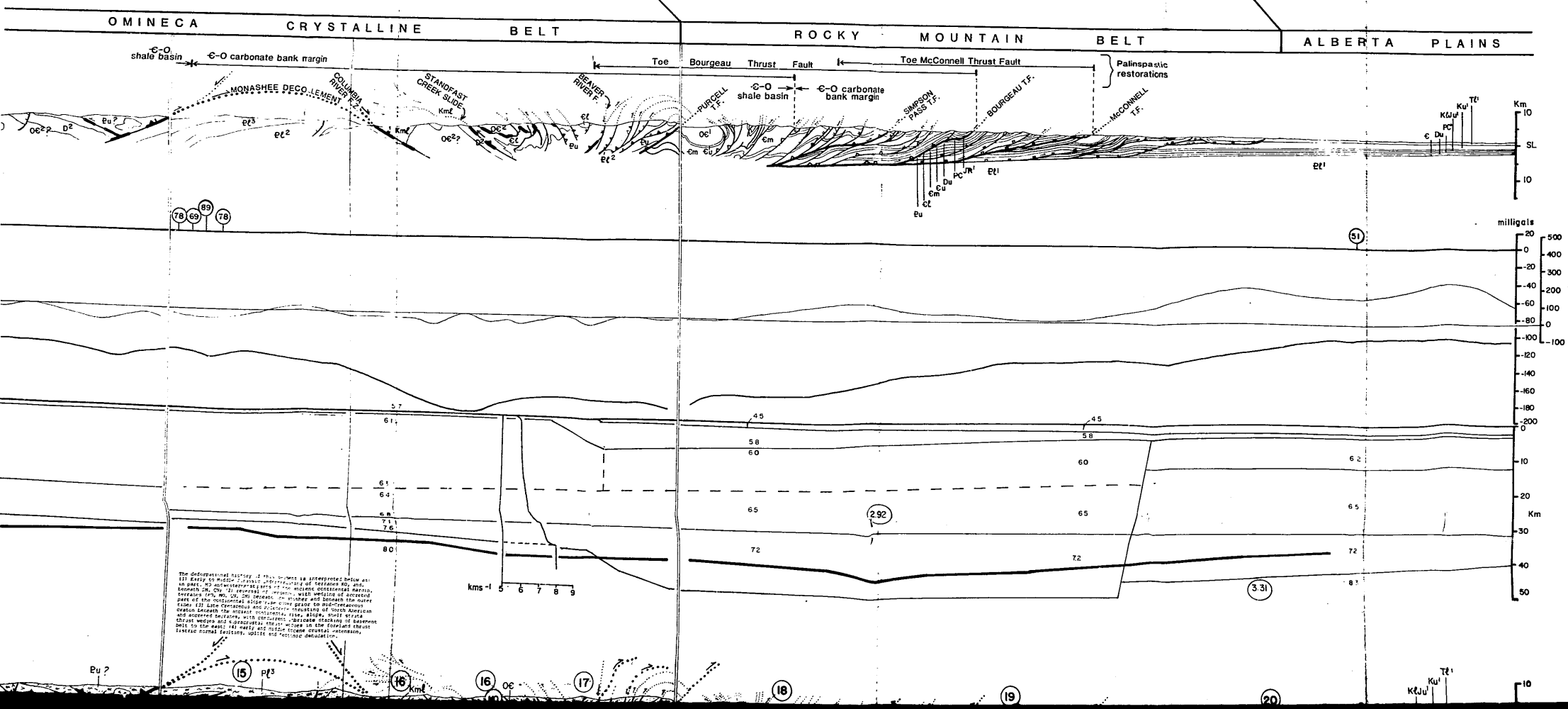
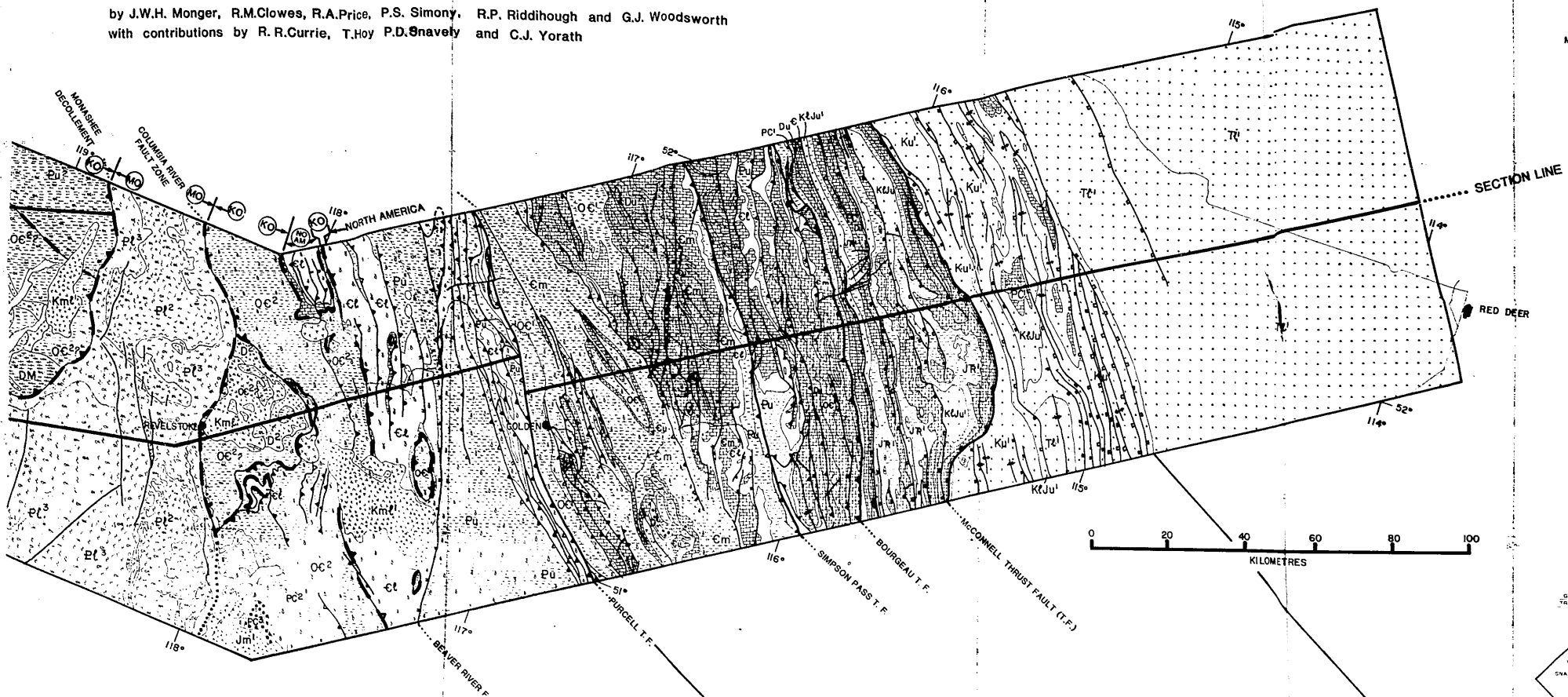
TECTONIC KINDRED (TK)	SYMBOL	COLOR
TECTONIC KINDRED 1	[Symbol]	Light Green
TECTONIC KINDRED 2	[Symbol]	Dark Blue
TECTONIC KINDRED 3	[Symbol]	Red and Pink
TECTONIC KINDRED 4	[Symbol]	Yellow
TECTONIC KINDRED 5	[Symbol]	Purple

COLOR CODING: AGE RANGE (A) (ON STRIP MAP, CROSS SECTION II) TECTONIC KINDRED (TK) (ON CROSS SECTION II) FORMAL NAMES AND LITHOLOGIES OF ROCK UNITS BEHIND BORDERS

AGE RANGE (A)	TECTONIC KINDRED (TK)	FORMAL NAMES AND LITHOLOGIES OF ROCK UNITS BEHIND BORDERS
AGE RANGE 1	TECTONIC KINDRED 1	TECTONIC KINDRED 1
AGE RANGE 2	TECTONIC KINDRED 2	TECTONIC KINDRED 2
AGE RANGE 3	TECTONIC KINDRED 3	TECTONIC KINDRED 3
AGE RANGE 4	TECTONIC KINDRED 4	TECTONIC KINDRED 4
AGE RANGE 5	TECTONIC KINDRED 5	TECTONIC KINDRED 5

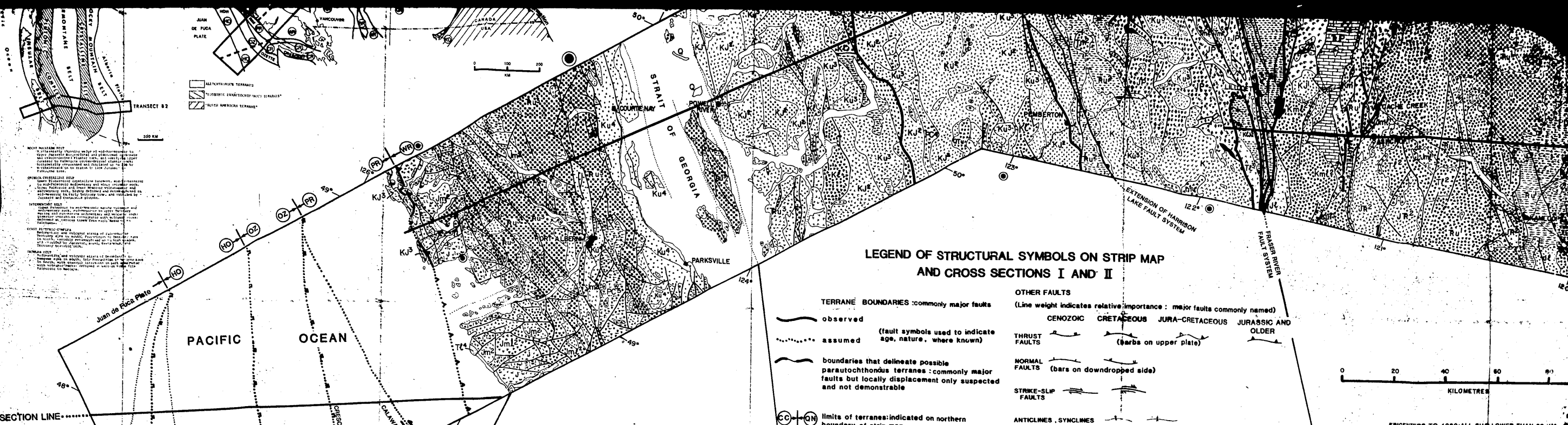
CONTINENT: OCEAN TRANSECT B2
JUAN DE FUCA PLATE TO ALBERTA PLAINS

by J.W.H. Monger, R.M.Clowes, R.A.Price, P.S. Simony, R.P. Riddihough and G.J. Woodsworth
with contributions by R.R.Currie, T.Hoy P.D.Snavely and C.J. Yorath

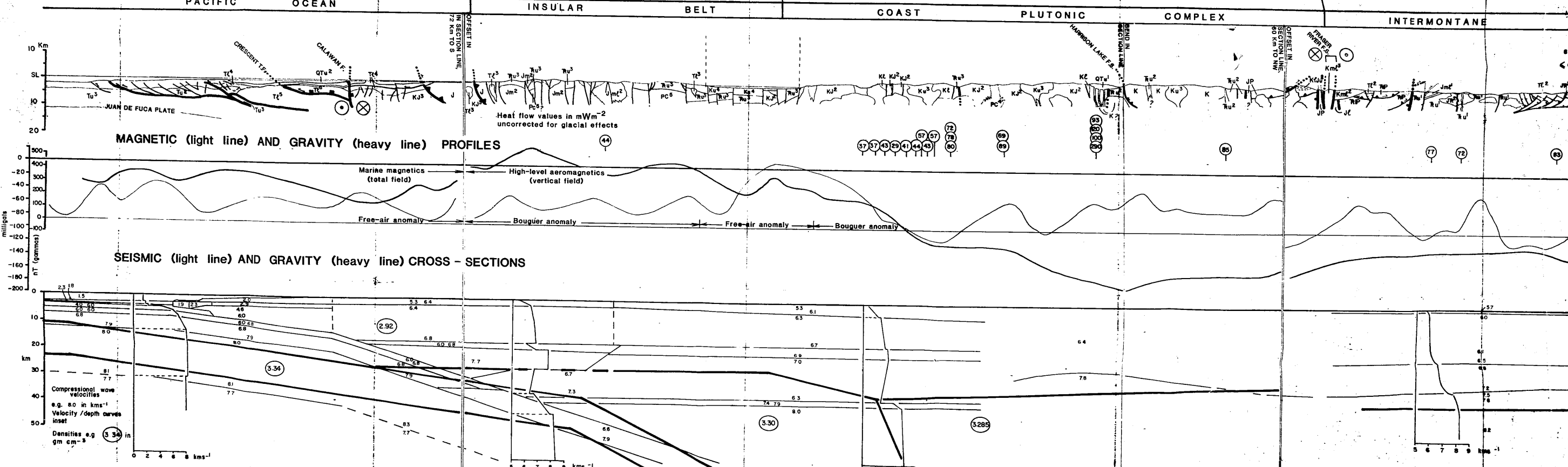


SYMBOLS, COLORS OF TECTONIC KINDRES (TK) (ON 1)									
COLORS OF THE TECTONIC LITH	LIGHT GREEN MEDIUM GREEN		LIGHT BLUE		DARK BLUE		RED AND PINK		OTHER CL
	ORIGINIC AND RELATED SEDIMENTARY ROCKS		CONTINENTAL PLATFORM SHIELD		CONTINENTAL BLOCK / RIDGE		MAGMATIC BAND		
SEDIMENTARY ROCKS	CONGLOMERATE, CLAYMINE, SANDSTONE, SHALE (SOL-43587)		CONGLOMERATE SANDSTONE, SHALE		PARALIC CLASTIC		CARBONATE		MAY BE TSC
	PARALIC CLASTIC		MARINE TURBIDITE AND FAH SOURCE		SHALE AND CLASTIC BEDDINGS		VOLCANIC CARBONATE		
			GAMONATE CARBONATE BAND		FELIC		MASS EITHER METEORIC COMPOSITION OR MIXED ROCK TYPES		
							MASSIC		
VOLCANIC ROCKS									MAY BE TSC
MAGMATIC ROCKS	DYC CRYSTALS						GRANITE		LIT AND TSC
	MELAGE BROKEN FORMATION		WOLYNE		TONALITE, GRANODIORITE		GABRO, DIORITE MAY INCLUDE SOME ULTRAFIC		
CRUST ULTRA MAFICS									
MANTLE									
OCEANIC UPPER MANTLE									

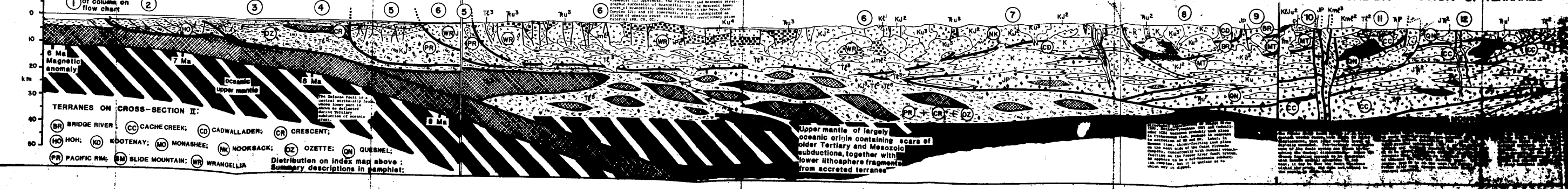
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CROSS SECTION I: AGES, CONTACT RELATIONSHIPS AND STRUCTURES IN UPPER CRUSTAL ROCKS

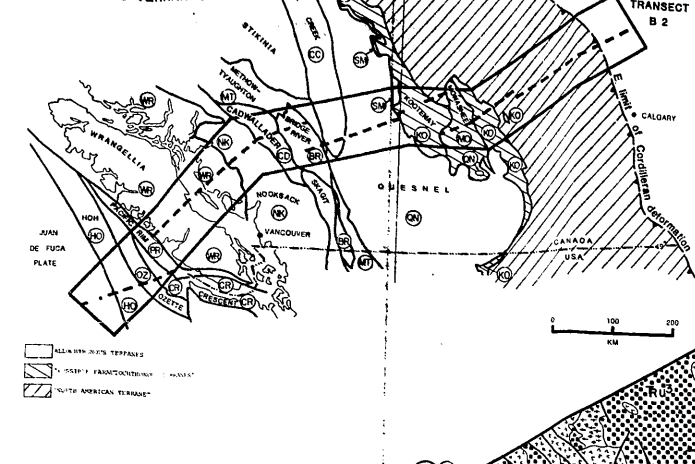
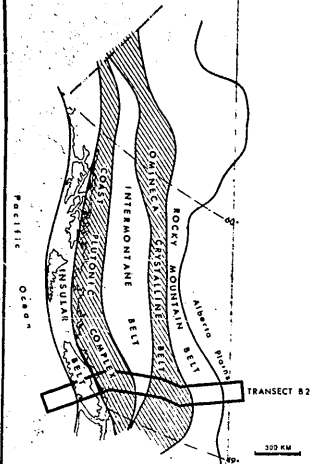


CROSS SECTION II: INTERPRETATIVE SECTION CONSTRAINED MAINLY BY SURFACE GEOLOGY AND SEISMIC CROSS-SECTION: SHOWS TECTONIC KINDREDS OF ROCK UNITS AND POSSIBLE VERTICAL DISTRIBUTION OF TERRANES



LOCATION OF TRANSECT B2 IN RELATION TO THE PHYSIOGRAPHIC / GEOLOGICAL BELTS OF THE CANADIAN CORDILLERA

INDEX MAP SHOWING LOCATION OF TRANSECT B2 RELATIVE TO TERRANES



NOTES: The map is a simplified representation of the geological and physiographic belts of the Canadian Cordillera. It is intended to provide a general overview of the location of Transect B2 relative to the major geological and physiographic features of the region. The map is not to scale and should not be used for detailed geological or geophysical interpretation.

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STRIP MAP

Colour denotes age pattern denotes tectonic kindred

SCALE

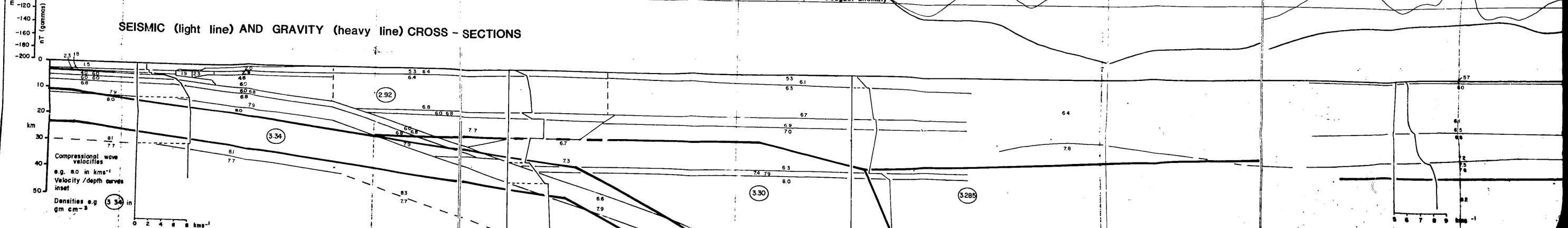
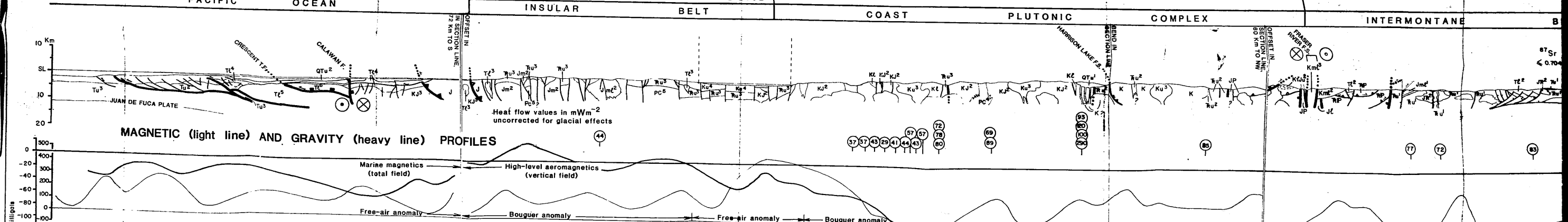
LEGEND OF STRUCTURAL SYMBOLS ON STRIP MAP AND CROSS SECTIONS I AND II

- TERRANE BOUNDARIES: commonly major faults
 - observed
 - assumed
 - boundaries that delineate possible parautochthonous terranes: commonly major faults but locally displacement only suspected and not demonstrable
 - limits of terranes: indicated on northern boundary of strip map
- OTHER FAULTS (Line weight indicates relative importance: major faults commonly named)
 - CENOZOIC CRETACEOUS JURA-CRETACEOUS JURASSIC AND OLDER
 - THRUST FAULTS (bars on upper plate)
 - NORMAL FAULTS (bars on down-dropped side)
 - STRIKE-SLIP FAULTS
 - ANTICLINES, SYNCLINES
- ABOVE SURFACE PROJECTIONS OF SOME STRUCTURES SHOWN BY DOTTED LINES ON CROSS SECTION

0 20 40 60 80 KILOMETRES

EPICENTERS TO 1980: ALL SHALLOWER THAN 80 KM

CROSS SECTION I: AGES, CONTACT RELATIONSHIPS AND STRUCTURES IN UPPER CRUSTAL ROCKS



CROSS SECTION II: INTERPRETATIVE SECTION CONSTRAINED MAINLY BY SURFACE GEOLOGY AND SEISMIC CROSS - SECTION: SHOWS TECTONIC KINDREDS OF ROCK UNITS AND POSSIBLE VERTICAL DISTRIBUTION OF TERRANES

Numbers in circles refer to location of columns on

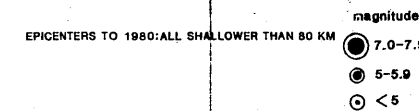
STRIP MAP

Colour denotes age
pattern denotes tectonic kindred

SCALE 1:500,000

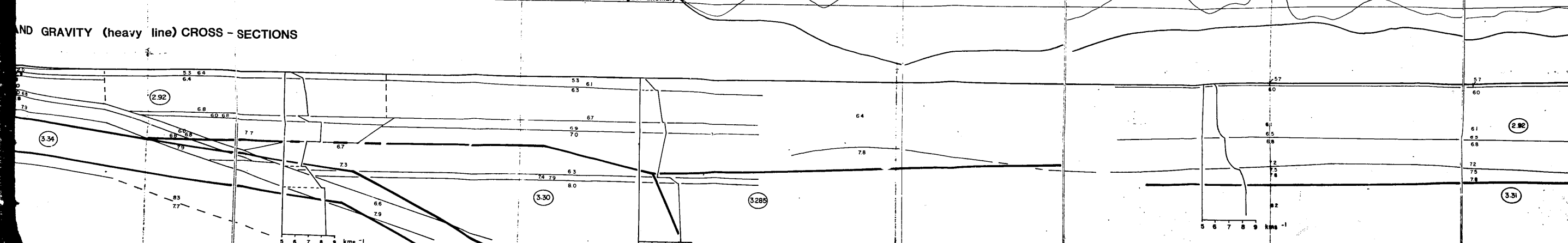
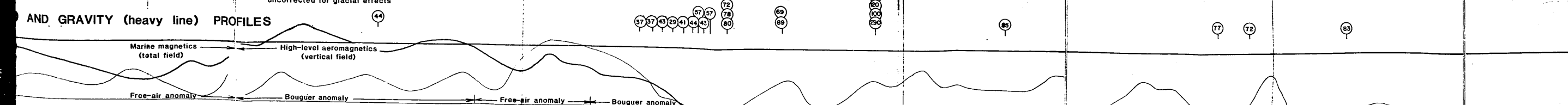
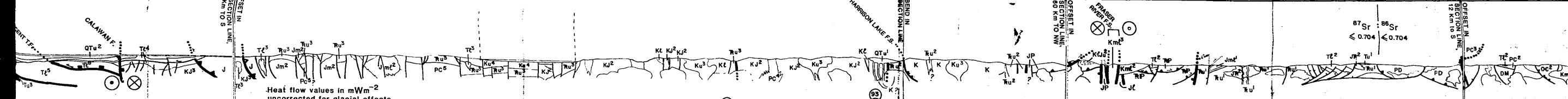
LEGEND OF STRUCTURAL SYMBOLS ON STRIP MAP
AND CROSS SECTIONS I AND II

- TERRANE BOUNDARIES:** commonly major faults
- observed (fault symbols used to indicate age, nature, where known)
 - assumed
 - boundaries that delineate possible parautochthonous terranes: commonly major faults but locally displacement only suspected and not demonstrable
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 - NORMAL FAULTS** (bars on down-dropped side)
 - STRIKE-SLIP FAULTS**
 - ANTICLINES, SYNCLINES**
- ABOVE SURFACE PROJECTIONS OF SOME STRUCTURES SHOWN BY DOTTED LINES ON CROSS SECTION



CONTACT RELATIONSHIPS AND STRUCTURES IN UPPER CRUSTAL ROCKS

OCEAN INSULAR BELT COAST PLUTONIC COMPLEX INTERMONTANE BELT OMINECA CRYSTALLINE BELT



INTERPRETATIVE SECTION CONSTRAINED MAINLY BY SURFACE GEOLOGY AND SEISMIC CROSS - SECTION: SHOWS TECTONIC KINDREDS OF ROCK UNITS AND POSSIBLE VERTICAL DISTRIBUTION OF TERRANES