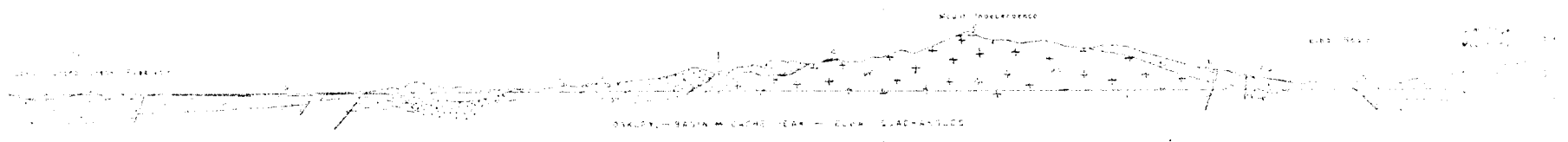
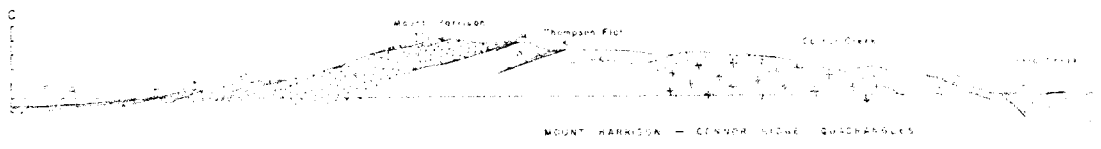


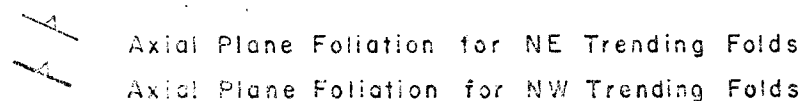
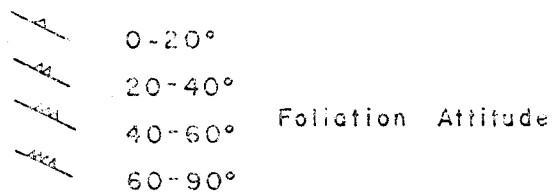
GEOLOGIC CROSS SECTIONS  
 EASTERN QUADRANGLE, IDAHO  
 CONTINENTAL TRANSESECTION



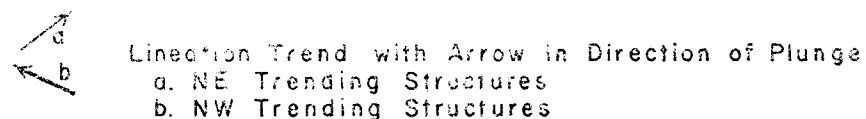
## C. STRUCTURAL GEOLOGY

### II METAMORPHIC FABRIC

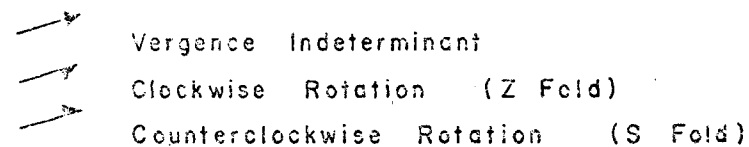
#### STRIKE AND DIP OF FOLIATION



#### LINEATION



#### FOLD AXES



## D. METAMORPHIC GRAD

### - INDEX MINERALS

#### MINERAL OCCURRENCE

C	Chloritoid
T	Tremolite
S	Staurolite
K	Kyanite
D	Diopside
F	Sillimanite (Fibrolite)

#### ISOGRAD

	Staurolite - Tremolite
	Sillimanite - Diopside

Regional Events

N NEVADA WNW - Overturned Folds

NE NEVADA  
 R.M. Mm, Recumbent Folding  
 W.H. NW-Overturned Folds  
 Mid Mesozoic Mm

Hi T Mylonitization  
 Ductile Faulting  
 P.M. ESE Transport  
 of Allochthons

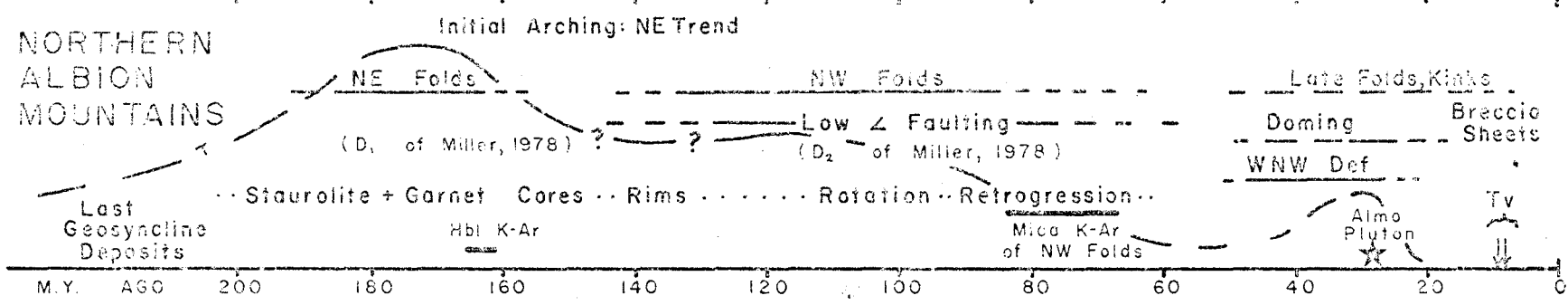
Denudation  
 Gravity Slides  
 Breccias

SE IDAHO -  
 N UTAH

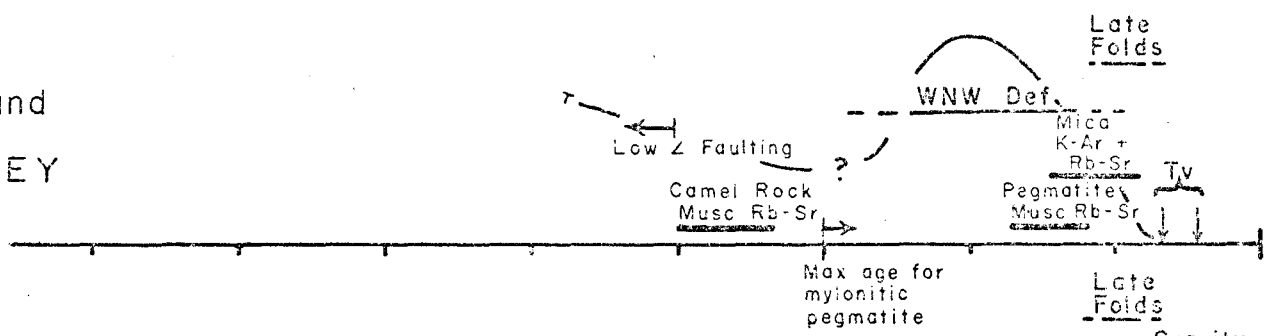
Initial Movement  
 on Paris Thrust  
 Culmination  
 of Thrusting } in S.O.B.

Basin Quadrangle

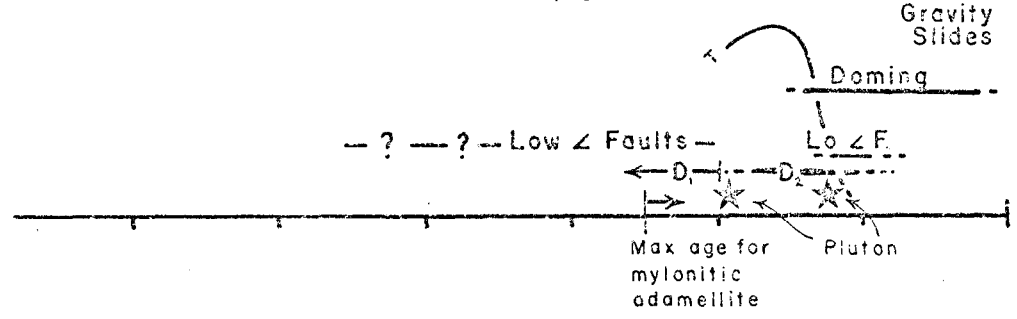
NORTHERN  
 ALBION  
 MOUNTAINS



MIDDLE MOUNTAIN and  
 BIRCH CREEK VALLEY



RAFT RIVER and  
 GROUSE CREEK MOUNTAINS



Phases:

Metamorphism

Transport

Denudation

# BASIN 30' QUADRANGLE

42° to 42°30' N

113°30' to 114° W

SCALE

1:100,000

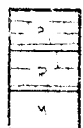
## A. GENERALIZED GEOLOGY

### EXPLANATION COVER



- Quaternary Sedimentary Rocks
- Basalt of the Snake River Plain
- Tertiary Sedimentary and Volcanic Rocks
- Breccia Sheets

### POST-DEVONIAN ASSEMBLAGE



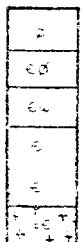
- Permian Limestone and Chert
- Pennsylvanian Limestone and Sandy Limestone
- Mississippian Black Phyllite, Conglomerate, and Limestone

### QUARTZITE ASSEMBLAGE



- Ordovician to Devonian Dolomite, Quartzite, and Limestone
- Paleozoic (?) Impure Quartzite and Limestone

### RAFT RIVER ASSEMBLAGE



- Ordovician to Devonian Limestone, Quartzite, and Dolomite
- Schist of Mahogany Peaks
- White Quartzite (Quartzite of Clarks Basin?)
- Schist of the Upper Narrows to Quartzite of Clarks Basin
- Elba Quartzite
- Green Creek Complex

### INTRUSIVE ROCKS



- Almo Pluton
- Gneiss of Camel Rock, Middle Mountain, and East Hills

A — LINE OF CROSS SECTION

## B. STRUCTURAL GEOLOGY

### I PRIMARY FEATURES & FOLDS AND FAULTS

#### STRIKE AND DIP

- |  |                          |   |
|--|--------------------------|---|
|  | Horizontal               | } Bedding Attitude in Stratified Rocks                  |
|  | 0-20°                    |   |
|  | 20-40°                   |   |
|  | 40-60°                   |   |
|  | 60-90°                   | } Confirmed by Cross Stratification                     |
|  | right side up overturned |   |
|  | 0-20°                    | } Pre-Elba Foliation in Precambrian Green Creek Complex |
|  | 20-40°                   |   |
|  | 40-60°                   |   |
|  | 60-90°                   |   |

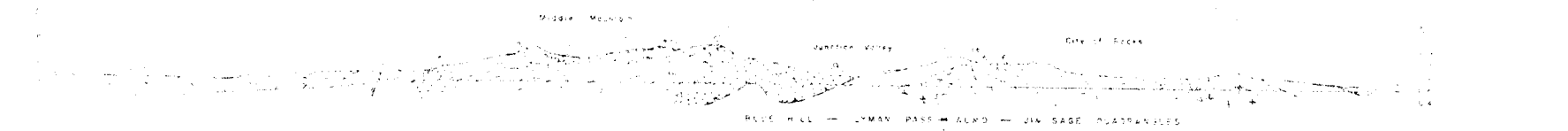
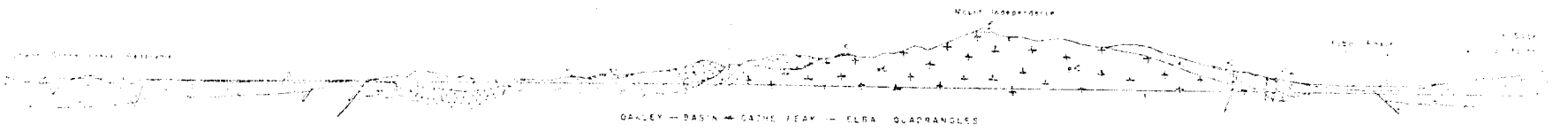
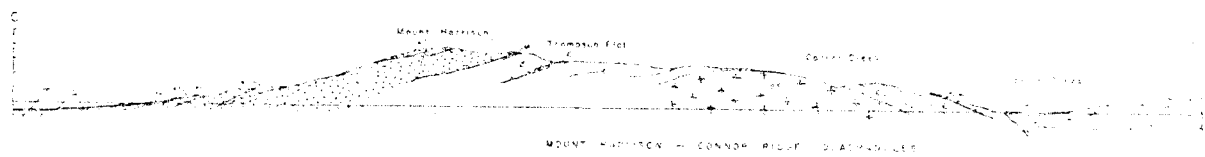
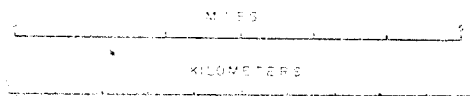
#### MAJOR FOLD AXIAL TRACE

- |  |           |                                    |
|--|-----------|------------------------------------|
|  | ANTICLINE | } Arrow Indicates Plunge Direction |
|  | SYNCLINE  |                                    |

#### MAJOR FAULTS

- |  |  |                        |
|--|--|------------------------|
|  | Low Angle Fault between Raft River and Siliceous Assemblages | } Teeth on Upper Plane |
|  | Other Low Angle Faults                                       |                        |
|  | High Angle Faults — Teeth on Downdropped Block               |                        |

GEOLOGIC CROSS SECTIONS  
 BASIN 30' QUADRANGLE, IDAHO  
 U.S. GEOLOGICAL SURVEY





km  
mi

