

Contents

<i>Preface</i>	vii
<i>Foreword</i>	ix
1. Introduction	1
B. C. Burchfiel, P. W. Lipman, and M. L. Zoback	

REGIONAL SYNTHESSES

2. Latest Precambrian to latest Devonian time; Development of a continental margin	9
F. G. Poole, J. H. Stewart, A. R. Palmer, C. A. Sandberg, R. J. Madrid, R. J. Ross, Jr., L. F. Hintze, M. M. Miller, and C. T. Wrucke	
3. Late Paleozoic paleogeographic and tectonic evolution of the western U.S. Cordillera	57
E. L. Miller, M. M. Miller, C. H. Stevens, J. E. Wright, and R. Madrid	
4. Early Mesozoic tectonic evolution of the western U.S. Cordillera	107
J. B. Saleeby and C. Busby-Spera, with contributions by J. S. Oldow, G. C. Dunne, J. E. Wright, D. S. Cowan, N. W. Walker, and R. W. Allmendinger	
5. Late Jurassic to early Late Cretaceous geology of the U.S. Cordillera	169
D. S. Cowan and R. L. Bruhn	
6. Late Cretaceous to early Eocene geologic evolution of the U.S. Cordillera	205
D. M. Miller, T. H. Nilsen, and W. L. Bilodeau	
7. Post-Laramide geology of the U.S. Cordilleran region	261
R. L. Christiansen and R. S. Yeats, with contributions by S. A. Graham, W. A. Niem, A. R. Niem, and P. D. Snavelly, Jr.	

TOPICAL SYNTHESSES

8. Tectonic overview of the Cordilleran orogen in the western United States	407
B. C. Burchfiel, D. S. Cowan, and G. A. Davis	
9. Magmatism in the Cordilleran United States; Progress and problems	481
P. W. Lipman	
10. Metamorphism of the western Cordillera and its relationship to tectonics	515
W. G. Ernst	
11. Cordilleran sedimentary assemblages	539
W. R. Dickinson	
12. Cenozoic extensional tectonics of the U.S. Cordillera	553
B. Wernicke	
13. Fold and thrust tectonics of the western United States exclusive of the accreted terranes	583
R. W. Allmendinger	
14. Strike-slip tectonics in the Cordilleran region, western United States	609
J. H. Stewart and J. C. Crowell	
15. Metallogenic evolution of the Cordilleran region of the western United States	629
R. W. Hutchinson and J. P. Albers	
16. Proterectonic and paleogeographic settings of U.S. Cordilleran ophiolites	653
J. B. Saleeby	
17. Tectonic significance of paleomagnetic results for the western conterminous United States	683
M. E. Beck, Jr.	
Index	699

Plates

(in accompanying slipcase)

Plate 1A. Tectonostratigraphic map of the Cordilleran orogenic belt

Plate 1B. Explanation for tectonostratigraphic map

B. C. Burchfiel

Plate 2. Distribution and thickness of Late Proterozoic through Middle Ordovician rocks

F. G. Poole and others

- Plate 3. Distribution and thickness of Upper Ordovician through Upper Devonian rocks; Stratigraphy of the Roberts Mountains allochthon and some younger accreted terranes
F. G. Poole and others
- Plate 4. Devonian to Early Triassic paleogeographic maps
E. L. Miller, M. M. Miller, C. H. Stevens, J. E. Wright,
and R. Madrid
- Plate 5. Early Mesozoic tectonic evolution of the western U.S.
Cordillera
J. Saleeby and C. Busby-Spera, with contributions by J. S.
Oldow, G. C. Dunne, N. W. Walker, J. E. Wright, D. S. Cowan,
and R. W. Allmendinger
- Plate 6. Late Cretaceous to Early Eocene geology of the United States
Cordillera
D. M. Miller, T. H. Nilsen, and W. L. Bilodeau
- Plate 7. Approximate distributions of major tectonic, sedimentary, and igneous features in the U.S. Cordilleran region during several post-Laramide time periods
R. L. Christiansen
- Plate 8. Interpretive tectonic map showing known areas of strong upper crustal extension and regional topography
B. P. Wernicke
- Plate 9. Preliminary metamorphic map of the western conterminous United States
W. G. Ernst
- Plate 10. Balanced and restored cross-sections across the Cordilleran thrust belt
R. W. Allmendinger