

Contents

<i>Acknowledgments</i>	vii
<i>Abstract</i>	1
<i>1. Purpose, context, and organization</i>	5
<i>2. Catalina detachment zone in geologic context</i>	13
<i>3. Expression of the Catalina detachment zone in five key subareas</i>	25
<i>4. Catalina detachment fault and subjacent cataclasites</i>	39
<i>5. Chloritic protocataclasite and minidetachment faults</i>	49
<i>6. Subdetachment faults, ultramylonite, calc-tectonite, and mylonite</i>	67
<i>7. Progressive structural evolution of the Catalina detachment zone</i>	83
<i>8. Geochronology- and thermochronology-based temporal framework</i>	91
<i>9. Discussion</i>	103
<i>Conclusions</i>	117
<i>References cited</i>	119