

Contents

1	Introduction	1
1.1	Introduction	1
	References	5
2	Early Cretaceous Volcanism in Central Argentina	9
2.1	Early Cretaceous Volcanism in Córdoba Province	9
2.1.1	Volcanism of the Sierra Chica of Córdoba Province	9
2.1.2	Early Cretaceous in the Levalle Basin of Córdoba Province	75
2.2	Early Cretaceous in San Luis Province	76
2.3	Probable Early Cretaceous Rocks in La Pampa and Buenos Aires Provinces	78
	References	78
3	Early Cretaceous Volcanism in Eastern Argentina	87
3.1	Early Cretaceous in Misiones Province	89
3.1.1	Geological Setting	89
3.1.2	Age of the Paraná Magmatic Province (PMP)	91
3.1.3	Classification and Petrography	92
3.1.4	Geochemistry of Lavas from Misiones Province and Comparison with Magmas from the Whole Paraná Magmatic Province	95
3.1.5	Petrogenetic Aspects of Lavas of Misiones Province in the Context of Paraná Magmatic Province	108
3.1.6	Petrogenetic Aspects of Tholeiites of Misiones Province (North-eastern Argentina) in the Context of PMP. Relationship with the Source of the Alkaline Volcanism of Córdoba Province (Central Argentina)	112
	References	116

4	Palaeoreconstruction of Pangea During the Early Cretaceous, and Location of Volcanism in Córdoba and Misiones Provinces with Respect to Seismic Structures in the Lower Mantle	123
	References	125
5	Geodynamical Setting for the Tholeiites of Misiones Province (North-eastern Argentina) in the Context of the PMP and the Alkaline Volcanism of Córdoba Province (Central Argentina)	129
	References	134
6	Conclusions	137
	Index	141

Early Cretaceous Volcanism in Central and Eastern
Argentina During Gondwana Break-Up

Lagorio, S.L.; Vizán, H.; Geuna, S.E.

2016, X, 141 p. 39 illus. in color., Softcover

ISBN: 978-3-319-29591-6