

CONTENTS

Introduction	1
1 Outer Carpathians Flysch Zone	9
1.1 Flysch of Outer Western Carpathians	9
1.2 Flysch of Outer Eastern Carpathians	12
2 Deep water deposits	15
2.1 Deep water facies model	17
2.2 Architectural elements of turbidity systems	18
2.2.1 Channels	19
2.2.2 Scours	20
2.2.3 Lobes	21
2.2.4 Channel-lobe transition zone	22
2.2.5 Overbank deposits	23
2.3 Deep-water massive sandstones	24
2.3.1 Facies associations of massive sandstones	25
2.3.2 Transport and deposition	27
3 Methods	31
3.1 Sedimentological research	31
3.2 Depositional environment interpretation via R/S analysis	33
4 Valley of the Poprad River (Piwniczna - Muszynska area, Poland) 35	
4.1 Location and geology of the study area	35
4.2 General characteristics of studied sediments	37
4.3 Lithofacies description and interpretation	39
4.4 Lithofacies associations	56
4.5 Depositional environment interpretation using R/S analysis	57
4.6 Architectural features of the Piwniczna Sandstones	58
5 Teleajen Valley (Romania)	61
5.1 Location and geology of the study area	61
5.2 General characteristics of studied sediments	64
5.3 Lithofacies description and interpretation	65
5.4 Lithofacies associations	74
5.5 Depositional environment interpretation using R/S analysis	80
5.6 Architectural features of the Teleajen valley sediments	81
Conclusion	83
References	85