GROUNDWATER DISCHARGE VALUES AND TYPES (SUBTYPES) OF GROUNDWATER FLOW MEDIA

GROUNDWATER FLOW MEDIA		AVERAGE LONG-TERM VALUES OF GROUNGWATER DISCHARGE (IN LITRE PER SECOND PER SQUARE KILOMETRE)							
TYPES	SUBTYPES	<0.1	0.1-1	1-3	3-5	5-10	10-20	>20	Uncertain value
SEDIMENTARY AND POROUS-UNCONSOLIDATED AND SLIGHTLY CONSOLIDATED ROCKS: SANDS, SANDS AND CLAYS, GRAVELS, PEBBLES, AND CLAYS	predominantly sandy								
	sandy-clayey (alluvial, proluvial, eolial and marine deposits)								
	surficial and glacial								
SEDIMENTARY AND FRACTURED-DIFFERENTLY CONSOLIDATED AND LITHIFIED SEDIMENTARY ROCKS: SANDSTONES, CONGLOMERATES, ARGILLITES, SILTSTONES, MARLS, ETC.	sandstone (sandstones, breccias, conglomerates, etc.)								
	clayey (argellites, clay slates, marls, etc.)								
FRACTURED, FRACTURED AND VEINED (METAMORPHIC AND MAGMATIC)	metamorphic (schists, gneisses, phyllites, quartzites, etc.)								
	magmatic (intrusive rocks of different composition)								
	volcanogenetic (extrusive rocks of different composition and their tuffs)								
KARSTIC	carbonate								
	sulphate, sulphate and carbonate								

Remarks: 1. The direction of screenings shows the mode of rock occurence

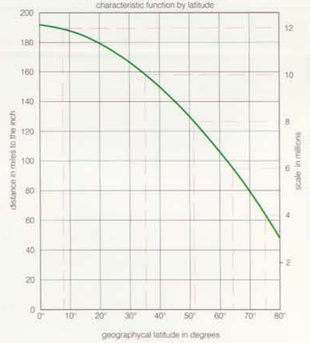
predominantly gently dipping (not dislocated) beds

folded (dislocated) beds

2. Geological age of water-bearing rocks (types of media) is shown by an index in keeping with the geochronological scale

WORLDMAP HORIZONTAL SCALE

characteristic function by latitude



AVERAGE ANNUAL VALUES OF GROUNDWATER DISCHARGE/ PRECIPITATION RATIO (%)

5 — Groundwater discharge/ precipitation ratio isolines

5 — Uncertain groundwater discharge/ precipitation ratio isolines

SPECIFIC CONDITIONS OF GROUNDWATER FLOW GENERATION

Intensive river water contribution to groundwater flow

Intensive human impact on groundwater flow generation

Fault zones with local groundwater discharge areas

Rift zones with specific ground-water flow generation conditions

20-40 — Range of coefficients of groundwater feed of rivers (groundwater discharge to river/total river runoff ratio), %

Sea water intrusion into aquifers

BOUNDARIES

Boundaries of occurrence of types of groundwater flow media

boundaries of areas with different groundwater discharge values

Boundaries of occurrence of groundwater flow medium subtypes and water-bearing rocks of different stratigraphy

boundaries of areas with uncertain groundwater discharge values

Shelf boundaries

boundaries of areas with different total dissolved solids contents

Boundary of mainly inuous permafrost rock occurrence

Boundaries of glacial areas