The map of Quaternary deposits of the USSR. Scale 1:2 500 000
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MINISTRY OF GEOLOGY OF THE USSR
ALL UNION ORDER OF LENIN GEOLOGICAL RESEARCH INSTITUTE (VSEGEI)

L E G E N D

L A N D

Upper Pliocene N_2^3	Pliocene–Lower Quaternary deposits $N_2–Q_1$	Lower Quaternary – Upper Quaternary deposits undifferentiated I–III	Lower Quaternary deposits I Horizons: Undifferentiated I	Interglacial I_1	Glacial I_2	Lower Quaternary – Middle Quaternary deposits undifferentiated I–II	Middle Quaternary deposits II Horizons: Undifferentiated II	Interglacial II_1	Glacial II_2	Interglacial II_3	Glacial II_4	Middle Quaternary and Upper Quaternary deposits undifferentiated II–III	Upper Quaternary deposits III Horizons: Undifferentiated III	Interglacial III_1	Glacial III_2	Interglacial III_3	Glacial III_4	Upper Quaternary and Recent deposits undifferentiated III–IV	Recent deposits IV: IV_1	IV_2	Quaternary deposits undifferentiated	
edN_2^3	$edN_2–Q_1$	edI–III																edIII–IV	edIV		e	ELUVIAL FORMATIONS
		dI–III	dI									dII–III	dIII					dIII–IV	dIV		ed	ELUVIAL-DELUVIAL DEPOSITS UNDIFFERENTIATED
												cII–III	cIII					cIII–IV	cIV		d	DELUVIAL DEPOSITS
												dcII–III	dcIII					dcIII–IV			c	COLLUVIAL (LANDSLIDE-TALUS) DEPOSITS
																		csIII–IV			dc	DELUVIAL-COLLUVIAL DEPOSITS
												dsII–III	dsIII					dsIII–IV			cs	COLLUVIAL-SOLIFLUCTION DEPOSITS
			adI			adI–II	adII						adIII					adIII–IV	adIV		ds	DELUVIAL-SOLIFLUCTION AND SOLIFLUCTION DEPOSITS
dpN_2^3	$dpN_2–Q_1$		dpI			dpI–II	dpII					dpII–III	dpIII					dpIII–IV	dpIV		ad	ALLUVIAL-DELUVIAL DEPOSITS
aN_2^3	$aN_2–Q_1$	aI–III	aI	aI_1	aI_2	aI–II	aII	aII_1	aII_2	aII_3	aII_4	aII–III	aIII	$aIII_1$	$aIII_2$	$aIII_3$	$aIII_4$	aIII–IV	aIV aIV_1		dp	DELUVIAL-PROLUVIAL DEPOSITS
LN_2^3		LI–III	LI				LII	LII_1	LII_2	LII_3		LII–III	LIII	$LIII_1$	$LIII_2$	$LIII_3$	$LIII_4$	LIII–IV	LIV LIV_1 LIV_2		a	ALLUVIAL DEPOSITS
LaN_2^3	$LaN_2–Q_1$		LaI		LaI_2	LaI–II	LaII	$LaII_1$	$LaII_2$		$LaII_4$	LaII–III	LaIII	$LaIII_1$	$LaIII_2$	$LaIII_3$	$LaIII_4$	LaIII–IV	LaIV $LaIV_1$		L	LACUSTRINE DEPOSITS
	$pN_2–Q_1$	pI–III	pI	pI_1	pI_2	pI–II	pII					pII–III	pIII					pIII–IV	pIV		La	LACUSTRINE-ALLUVIAL DEPOSITS
apN_2^3	$apN_2–Q_1$	apI–III	apI	apI_1	apI_2	apI–II	apII		$apII_2$		$apII_4$	apII–III	apIII					apIII–IV	apIV		p	PROLUVIAL DEPOSITS
																		chIII–IV	chIV		ap	ALLUVIAL-PROLUVIAL DEPOSITS
			gI		gI_2	gI–II	gII		gII_2		gII_4	gII–III	gIII		$gIII_2$		$gIII_4$	gIII–IV	gIV		ch	CHEMOGENIC DEPOSITS
							LgII		$LgII_2$		$LgII_4$		LgIII		$LgIII_2$		$LgIII_4$	LgIII–IV			g	GLACIAL DEPOSITS
			fI		fI_2	fI–II	fII		fII_2		fII_4	fII–III	fIII		$fIII_2$		$fIII_4$				Lg	LACUSTRINE-GLACIAL DEPOSITS
									$gfII_2$		$gfII_4$				$gfIII_2$		$gfIII_4$				f	FLUVIOGLACIAL DEPOSITS
																						GLACIAL AND FLUVIOGLACIAL DEPOSITS, UNDIFFERENTIATED
												vII–III	vIII				$vIII_4$	vIII–IV	vIV vIV_2		a v v b	EOLIAN SEDIMENTS: a) Overlying Pre-Quaternary rocks b) Overlying Quaternary deposits
		LI–III				LI–II	LII					LII–III	LIII						LIV		a L L b	LOESS: a) resting on Pre-Quaternary formations b) overlying Quaternary deposits
mN_2^3			mI				mII	mII_1	mII_2		mII_4	mII–III	mIII	$mIII_1$	$mIII_2$	$mIII_3$	$mIII_4$	mIII–IV	mIV mIV_1 mIV_2		m	MARINE DEPOSITS
		amI–III	amI				amII		$amII_2$		$amII_4$	amII–III	amIII	$amIII_1$	$amIII_2$	$amIII_3$	$amIII_4$	amIII–IV	amIV $amIV_1$ $amIV_2$		am	ALLUVIAL-MARINE (DELTAIC-LAGOON) DEPOSITS
			gmI				gmII		$gmII_2$		$gmII_4$	gmII–III	gmIII		$gmIII_2$			gmIII–IV			gm	GLACIAL-MARINE DEPOSITS
	$\beta N_2–Q_1$		βI			βI–II	βII					βII–III	βIII					βIII–IV	βIV		β	VOLCANOGENIC FORMATIONS
												$Lc_{\beta}dI–III$										LACUSTRINE, ELUVIAL-DELUVIAL DEPOSITS UNDIFFERENTIATED
																						PRE-QUATERNARY ROCKS
																						VOLCANIC ASHES FORMING THIN COVER

NOTES: 1) In all areas, where adjacent stratigraphic horizons could not be differentiated, they are shown by the colour of the younger one and by the complex index: III_{1-2}, II_{3-4}, II_{2-4}.

2) In all cases, when loess and eolian deposits lie on other types of Quaternary deposits, the authors use the alternation of two corresponding colours and the index in the form of a fraction, the numerator being the index of loess and eolian deposits and denominator – that of underlying deposits e.g. $\frac{Lvd\,III}{dII}$

3) The supposed genesis of loess is designated by letters except for that of the loess-like deluvial sediments in the southern part of the Russian plain, which are designated by colour assigned for deluvial deposits. The index „vd" is used for eolian-deluvial loess (Lvd)

4) The Akchagyl and Apsheron deposits of the Kaspian–Black sea region are shown by respective letter indices: N_2^3ak and N_2^3ap

SEA BOTTOM

Lower Quaternary	Middle Quaternary	Upper Quaternary	Upper Quaternary and Recent	Recent	Undifferentiated	
			mtIII	mtIII–IV	mtIV	mt	TERRIGENOUS
					mtbIV	mtb	TERRIGENOUS-BIOGENIC
					mbIV	mb	BIOGENIC
					mbchIV	mbch	BIOGENIC-CHEMOGENIC
					mchIV	mch	CHEMOGENIC
						mtv	TERRIGENOUS-VOLCANIC
mI	mII	mIII					MARINE
							OUTCROPS OF PRE-QUATERNARY ROCKS

SUBMERGED CONTINENTAL QUATERNARY DEPOSITS

gIII	GLACIAL
gm III–IV	GLACIAL-MARINE
LgIII–IV	LACUSTRINE-GLACIAL
aIV	ALLUVIAL
amIV	ALLUVIAL-MARINE

FACIES ZONES

Shelf

- Zone of mobile water
- Zone of poorly mobile bottom water
- Zone of bottom water of moderate mobility
- Zone of quiet bottom water

Continental slope, sea-bottom ridges

- Zone of mobile bottom water
- Zone of bottom water of moderate mobility
- Zone of water of moderate mobility enriched in suspended material
- Zone of quiet bottom water

Ocean floor and bottom of marine basins

- Zone of quiet bottom water

GEOMORPHOLOGICAL FEATURES

- Shelf edge
- Submerged river valleys on the shelf
- Canyons
- Depressions (trenches on the shelf and continental slope)
- Submarine swells
- Dome-shaped structures
- Submarine volcanoes
- Structural-tectonic scarps
- Edge of the abrasion surface
- Erosion scarps
- Landslides

- Hilly-moraine accumulations
- Kames
- Terminal moraines and eskers
- Drumlins
- Dislocations by glaciers and major glacier detached masses
- Modern glaciers
- Active and extinct volcanoes
- Locations of ashes in Quaternary deposits
- Mud volcanoes and mud-volcanic deposits
- Boundary of the 1st Middle Quaternary glaciation (Dnieper, Samarov) proved and conjectural
- Boundary of the 2nd Middle Quaternary glaciation (Moscow, Taz), proved and conjectural
- Boundary of Middle Quaternary mountain glaciations, conjectural
- Boundary of the 1st Late Quaternary glaciation (Kalinin, Zyrianka), proved and conjectural
- Boundary of the 2nd Late Quaternary glaciation (Ostashkovo) proved and conjectural
- Boundary of the 3rd Late Quaternary (Sartan) glaciation (stage?), the Luga phase, proved and conjectural
- Boundary of maximum extent of Late Quaternary mountain-valley glaciations (stages), proved and conjectural
- Boundary of late-glacial and postglacial transgressions
- Boundary of maximum extent of Quaternary transgressions
- Boundary of permafrost
- Major Quaternary faults
- Sites of main findings of fossil vertebrates of Pre-Dnieper and Post-Dnieper age
- Sites of main findings of marine mollusk shells
- Sites of main findings of fresh water mollusk shells
- Sites of main findings of fossil flora
- Paleolithic dwelling sites of Early, Middle and Late Paleolith
- Cave dwelling sites of Early, Middle and Late Paleolith
- Group of Paleolithic and Cave dwellings
- Boundaries of mapped units

ADDITIONAL INDICES

- Mollusks
- Radiolarians
- Foraminifera
- Diatoms
- Plant remains
- Sponges
- Oolites
- $CaCO_3$ 10% — $CaCO_3$ content (in %%) in sediments
- Concretions (ferro-manganesian etc.)
- Volcanic products
- Sulphate-chloride
- Glauconite
- Boulders transported by ice-floes
- Boundary between the Quaternary deposits and bedrock
- Conjectural boundary of the Quaternary deposits
- Boundary of facies zones

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