

L E G E N D

TO THE GEOLOGICAL MAP AND MAP OF MINERAL RESOURCES OF QUATERNARY SEDIMENTS

| International Stratigraphic Scale of Quaternary System | Regional and Local Quaternary Stratigraphic Units | | | | | | | | | | B A C K - G L A C I E R Z O N E | | | | | | | | | |
|--|---|---------------------------|-------------------------|-------------|------------------|-----------------------------|-----------------|--------------|------------------|----------|----------------------------------|--|--|--|--|----------------------------------|--|--|--|--|
| | | | | | | | | | | | SUB-ZONE OF NORTHERN LOESS AREAS | | | | | SUB-ZONE OF SOUTHERN LOESS AREAS | | | | |
| | | | | | | | | | | | Genetic Types of Sediments | | | | | Genetic Types of Sediments | | | | |
| | | | | | | | | | | | Simple | | | | | Complex | | | | |
| NEO-GENE | Q U A T E R N A R Y - Q | P L E I S T O C E N E - P | M i d d l e | Lower - | P _i | Middle - | P _{ii} | Upper - | P _{iii} | System | Division | | | | | Section | | | | |
| PLIO-CENE | Eo-Pleistocene - E | Lower - E _{ii} | Upper - E _{ii} | Lower - | P _i | Middle - | P _{ii} | Upper - | P _{iii} | Division | Branch | | | | | Branch | | | | |
| Upper | Kozydarovskaya kz | Nogayskaya ng | Buduska b _k | Donetska dc | Krukiyevskaya kn | Khatayhevskaya Cherkaska gr | Tribuzka tb | Vishnuska vi | Desynska ds | Section | Ledge | | | | | Ledge | | | | |
| HOLOCENE - H | Kozydarovskaya kz | Nogayskaya ng | Buduska b _k | Donetska dc | Krukiyevskaya kn | Khatayhevskaya Cherkaska gr | Tribuzka tb | Vishnuska vi | Desynska ds | Branch | Ledge | | | | | Ledge | | | | |
| | | | | | | | | | | Section | Climatolith | | | | | Climatolith | | | | |
| | | | | | | | | | | Branch | HOLOCENE - H | | | | | HOLOCENE - H | | | | |
| | | | | | | | | | | Ledge | Holocene | | | | | Holocene | | | | |
| | | | | | | | | | | | Prychomorskyy | | | | | Prychomorskyy | | | | |
| | | | | | | | | | | | Dofinivskyy | | | | | Dofinivskyy | | | | |
| | | | | | | | | | | | Buzkiy | | | | | Buzkiy | | | | |
| | | | | | | | | | | | Vytachivskyy | | | | | Vytachivskyy | | | | |
| | | | | | | | | | | | Udayskyy | | | | | Udayskyy | | | | |
| | | | | | | | | | | | Prylutskyy | | | | | Prylutskyy | | | | |
| | | | | | | | | | | | Tyasmiskyy | | | | | Tyasmiskyy | | | | |
| | | | | | | | | | | | Kaydatskyy | | | | | Kaydatskyy | | | | |
| | | | | | | | | | | | Dniprovskyy | | | | | Dniprovskyy | | | | |
| | | | | | | | | | | | Zavadivskyy | | | | | Zavadivskyy | | | | |
| | | | | | | | | | | | Tyligulskyy | | | | | Tyligulskyy | | | | |
| | | | | | | | | | | | Lubenskyy | | | | | Lubenskyy | | | | |
| | | | | | | | | | | | Sulskyy | | | | | Sulskyy | | | | |
| | | | | | | | | | | | Martonoskyy | | | | | Martonoskyy | | | | |
| | | | | | | | | | | | Pryazovskyy | | | | | Pryazovskyy | | | | |
| | | | | | | | | | | | Shyrokynskyy | | | | | Shyrokynskyy | | | | |
| | | | | | | | | | | | Illichivskyy | | | | | Illichivskyy | | | | |
| | | | | | | | | | | | Kryzhanivskyy | | | | | Kryzhanivskyy | | | | |
| | | | | | | | | | | | Berezanskyy | | | | | Berezanskyy | | | | |
| | | | | | | | | | | | Beregivskyy | | | | | Beregivskyy | | | | |

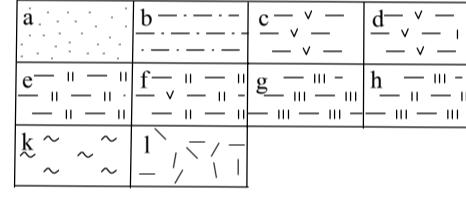
* – applied to the typological columns only

** – applied to the scheme of internal structure of Quaternary sediments only



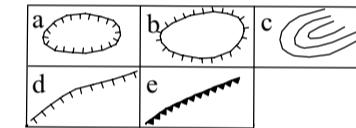
Pre-Quaternary sediments (PrQ)

LITHOLOGY OF SEDIMENTS



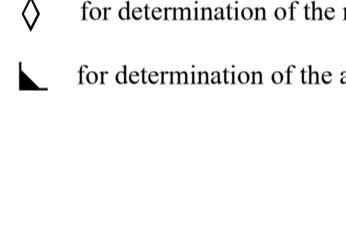
a - sands; b - sandy loam; c - loess-like light loam; d - loess-like medium to light loam;
e - medium loam; f - loess-like medium loam; g - heavy loam; h - heavy to medium
loam; k - clays; l - rocks of diverse lithology

GEOMORPHOLOGICAL PATTERNS



a - quarries, hollows, sections; b - dumps, waste dumps, heaps; c - slides;
d - erosion processes; e - coast abrasion

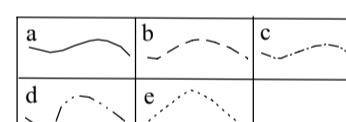
SAMPLING SITES



◊ for determination of the rock composition

◀ for determination of the absolute age

GEOLOGICAL BOUNDARIES

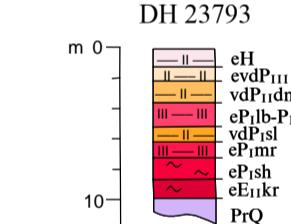


Those of stratigraphic-genetic subdivisions: a - proven, b - inferred; those of buried alluvium:
c - proven, d - inferred, e - lithologic varieties

OTHER INDICATIONS

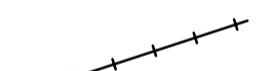
28620 a ○ b □ a - drill-hole and its number; b - basic sections

DH 23793



Typological columns to the stratigraphic-paleolandscape zonation

FAULTS



Lineaments thought to be the faults

MINERALS

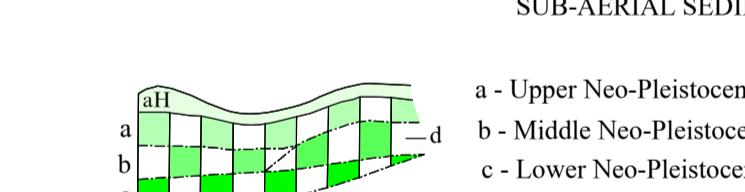
| Group | Type | Deposits | Occurrences |
|-----------------------|---|----------|-------------|
| Metallic | Titanium | | ● Ti |
| Natural materials | Construction sands | □ C | |
| Technical commodities | Loams (raw materials for brick manufacturing) | □ B | |

STUDY AND ECONOMIC DEVELOPMENT DEGREE OF DEPOSITS AND OCCURRENCES

- Deposits
- Occurrences
- Deposit:

 - in production
 - ✗ exhausted
 - out of production

ALLUVIAL SEDIMENTS OVERLAIN BY SUB-AERIAL SEDIMENTS



a - Upper Neo-Pleistocene
b - Middle Neo-Pleistocene
c - Lower Neo-Pleistocene
d - Eo-Pleistocene
e - Lower and Middle Neo-Pleistocene

Placors composed of loess-soil rocks C-II-13-c₁

