

Дарё. Дарё ҳавзаси. Дарё тармоғи

РЕЖА



Дарё ҳавзасининг гидрографик тавсифи

Дарё ҳавзаси. Дарёларнинг тўйиниш манбалари

Оқим гидрографлари. Ўрта Осиё дарёларининг тўйиниш манбалари бўйича тавсифланиши

Дарё тушунчаси

Табиий чуқурликда ҳаракат қиладиган ва доимий сув оқимиға эға бўлган табиий ўзанға **ДАРЁ** дейилади.

Бош дарё ва унинг ирмоқлари

- Ўс $\pi\acute{o}\hat{\alpha}\acute{\epsilon}\acute{\iota}\acute{\epsilon}$ $\acute{\iota}\hat{\epsilon}\hat{\alpha}\acute{\iota}\acute{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$, $\hat{\alpha}\hat{\alpha}\acute{\iota}\hat{\alpha}\acute{\epsilon}\zeta\hat{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\hat{\alpha}\hat{\alpha}$ $\acute{\epsilon}\check{\upsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\check{\upsilon}\hat{\alpha}\acute{\epsilon}\hat{\alpha}\acute{\iota}$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ **$\acute{\alpha}\hat{\iota}\emptyset$ $\hat{\alpha}\hat{\alpha}\delta$** , $\hat{\alpha}\hat{\alpha}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$. $\acute{\alpha}\hat{\iota}\emptyset$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ $\kappa\hat{\alpha}\acute{\iota}\hat{\alpha}\hat{\alpha}\acute{\epsilon}$ $\pi\acute{o}\hat{\alpha}$ $\chi\hat{\alpha}\hat{\alpha}\zeta\hat{\alpha}\eta\hat{\epsilon}\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\alpha}$ $\acute{\alpha}\hat{\iota}\hat{\zeta}\hat{\epsilon}\hat{\epsilon}\kappa$ $\chi\hat{\iota}\hat{\epsilon}\hat{\alpha}\hat{\alpha}$ $\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\epsilon}$ $\hat{\alpha}\acute{o}\delta\acute{o}\chi\hat{\alpha}\hat{\alpha}$ $\acute{\alpha}\check{\upsilon}\hat{\epsilon}\hat{\epsilon}\acute{\iota}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$:
- **1. $\acute{\iota}\hat{\epsilon}\hat{\alpha}\acute{\iota}$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ $\acute{\epsilon}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\acute{o}\acute{\iota}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$** $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ $\acute{\iota}\hat{\epsilon}\hat{\alpha}\acute{\iota}$ $\acute{\epsilon}\hat{\epsilon}$ $\acute{\iota}\hat{\epsilon}\hat{\alpha}\acute{\iota}$ $\acute{\alpha}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\acute{\iota}$ $\acute{o}\acute{o}\hat{o}\hat{\alpha}\emptyset$ $\acute{\alpha}\check{\upsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\acute{\iota}$ $\hat{\alpha}\hat{\alpha}\acute{\iota}\hat{\alpha}\acute{\epsilon}\zeta\hat{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$. $\acute{\iota}\hat{\alpha}\eta\hat{\alpha}\acute{\epsilon}\hat{\alpha}\acute{\iota}$, $\acute{\alpha}\hat{\iota}\hat{\alpha}\zeta\hat{\iota}\hat{\iota}\hat{\epsilon}\hat{\alpha}$, $\acute{\alpha}\hat{\iota}\acute{o}\delta$, $\acute{\alpha}\hat{\iota}\hat{\iota}$, $\acute{\alpha}\acute{o}\acute{\iota}\hat{\alpha}\acute{\epsilon}$, $\acute{\epsilon}\hat{\alpha}\acute{\iota}\hat{\alpha}$, $\acute{\iota}\hat{\epsilon}\hat{\epsilon}$ $\hat{\alpha}\hat{\alpha}$ $\chi\hat{\iota}\hat{\epsilon}\hat{\alpha}\zeta\acute{\iota}$.
- **2. $\acute{\epsilon}\hat{\iota}\hat{\iota}\hat{o}\acute{\epsilon}\acute{\iota}\hat{\alpha}\acute{\iota}\hat{o}$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ $\acute{\epsilon}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}$** $\chi\hat{\alpha}\hat{\alpha}\zeta\hat{\alpha}\hat{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$ $\hat{\alpha}\hat{\alpha}\acute{\iota}\hat{\alpha}\acute{\epsilon}\zeta$ $\acute{\epsilon}\hat{\epsilon}$ $\acute{\epsilon}\check{\upsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$ $\acute{\epsilon}\kappa\hat{\iota}$ уларгача етиб бормаслиги мумкин. $\acute{\iota}\hat{\alpha}\eta\hat{\alpha}\acute{\epsilon}\hat{\alpha}\acute{\iota}$, $\acute{\alpha}\hat{\iota}\acute{o}\hat{\alpha}\hat{\alpha}\delta$, $\eta\hat{\epsilon}\delta\hat{\alpha}\hat{\alpha}\delta$, $\acute{\alpha}\hat{\iota}\hat{\epsilon}\hat{\alpha}\hat{\alpha}$, $\acute{o}\delta\hat{\alpha}\hat{\epsilon}$ $\hat{\alpha}\hat{\alpha}$ $\acute{\alpha}\hat{\iota}\emptyset\kappa\hat{\alpha}\acute{\epsilon}\hat{\alpha}\delta$.
- $\acute{\alpha}\hat{\iota}\emptyset$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}\hat{\alpha}\acute{\iota}$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ $\acute{o}\acute{\iota}\hat{\epsilon}\acute{\iota}\hat{\alpha}$ **$\acute{\epsilon}\delta\hat{\iota}\hat{\iota}\kappa\hat{\epsilon}\hat{\alpha}\delta\hat{\epsilon}$** $\hat{\alpha}\hat{\alpha}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$. $\acute{\epsilon}\delta\hat{\iota}\hat{\iota}\kappa\hat{\epsilon}\hat{\alpha}\delta$ $\acute{\alpha}\hat{\iota}\emptyset$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$ $\chi\hat{\iota}\hat{\epsilon}\hat{\alpha}\hat{o}\hat{\epsilon}\hat{\alpha}\hat{\alpha}$ $\kappa\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\acute{o}\hat{\alpha}\delta\hat{o}\hat{\epsilon}\hat{\alpha}\acute{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\acute{\alpha}\check{\upsilon}\hat{\epsilon}\hat{\epsilon}\acute{\iota}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$. $\acute{\alpha}\hat{\iota}\emptyset$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\hat{\alpha}$ $\acute{\alpha}\hat{\alpha}\hat{\alpha}\hat{\iota}\eta\hat{\epsilon}\hat{o}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}\hat{\alpha}\acute{\iota}$ $\hat{\alpha}\hat{\alpha}\delta\hat{\epsilon}\hat{\alpha}\delta$ $\acute{\alpha}\hat{\epsilon}\delta\hat{\epsilon}\acute{\iota}\hat{\div}\hat{\epsilon}$ $\acute{o}\hat{\alpha}\delta\hat{o}\hat{\epsilon}\hat{\alpha}\acute{\epsilon}\hat{\epsilon}$ $\acute{\epsilon}\delta\hat{\iota}\hat{\iota}\kappa\hat{\epsilon}\hat{\alpha}\delta$, $\acute{\alpha}\hat{\epsilon}\delta\hat{\epsilon}\acute{\iota}\hat{\div}\hat{\epsilon}$ $\acute{o}\hat{\alpha}\delta\hat{o}\hat{\epsilon}\hat{\alpha}\acute{\epsilon}\hat{\epsilon}$ $\acute{\epsilon}\delta\hat{\iota}\hat{\iota}\kappa\hat{\epsilon}\hat{\alpha}\delta\hat{\alpha}\hat{\alpha}$ $\kappa\acute{o}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}\hat{\alpha}\acute{\iota}\hat{\epsilon}\hat{\alpha}\delta\hat{\epsilon}$ $\acute{\upsilon}\eta\hat{\alpha}$ $\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\epsilon}\acute{\iota}\hat{\div}\hat{\epsilon}$ $\acute{o}\hat{\alpha}\delta\hat{o}\hat{\epsilon}\hat{\alpha}\acute{\epsilon}\hat{\epsilon}$ $\acute{\epsilon}\delta\hat{\iota}\hat{\iota}\kappa\hat{\epsilon}\hat{\alpha}\delta$ $\hat{\alpha}\hat{\alpha}\acute{\epsilon}\hat{\epsilon}\hat{\epsilon}\hat{\alpha}\hat{\alpha}\hat{\epsilon}$ $\hat{\alpha}\hat{\alpha}$ $\chi\hat{\iota}\hat{\epsilon}\hat{\alpha}\zeta\acute{\iota}$

Дарёларнинг қисмларга бўлиниши

Ҳаёт қайта аҳоли, оила оқолиёеёе аўеёеёе, аёе аёеёеёе оаоқ қеёеёеёе оіоіеёе
аёеёеёеёеёе қадаа, қоёеёеёе оё қеёеёе аўеёеёе:

Юқори оқим

Ой аҳолиёеёеёе **рқиде іқеіеёе** оёоі
іеёеёеёеёе ёеёеёе іеёеёеёеёеёе оіёе аўеёеёе, оо
ооёеёеёе ёеёеёеёе іқеёе оаёеёеёе ҳаі аёеёе
ёеёеёе аўеёеёе. Ао уёеёе ёе іаёеёеёеёе ёеёеёе
уёеёеёе ёеёеёеёе ёеёеёе аёеёеёеёе іеёеёе
ёеёеёе

Ўрта оқим

Аҳолиёеёеёе ёеёеёе іқеіеёе оіеіёе
іеёеёеёеёе аё ёеёеёеёе іқеёе
оаёеёеёе ёеёеёеёе. Ўёе іоёеёеёе,
аҳолиёеёеёе ёеёеёеёеёе ёеёеёе

Қуйи оқим

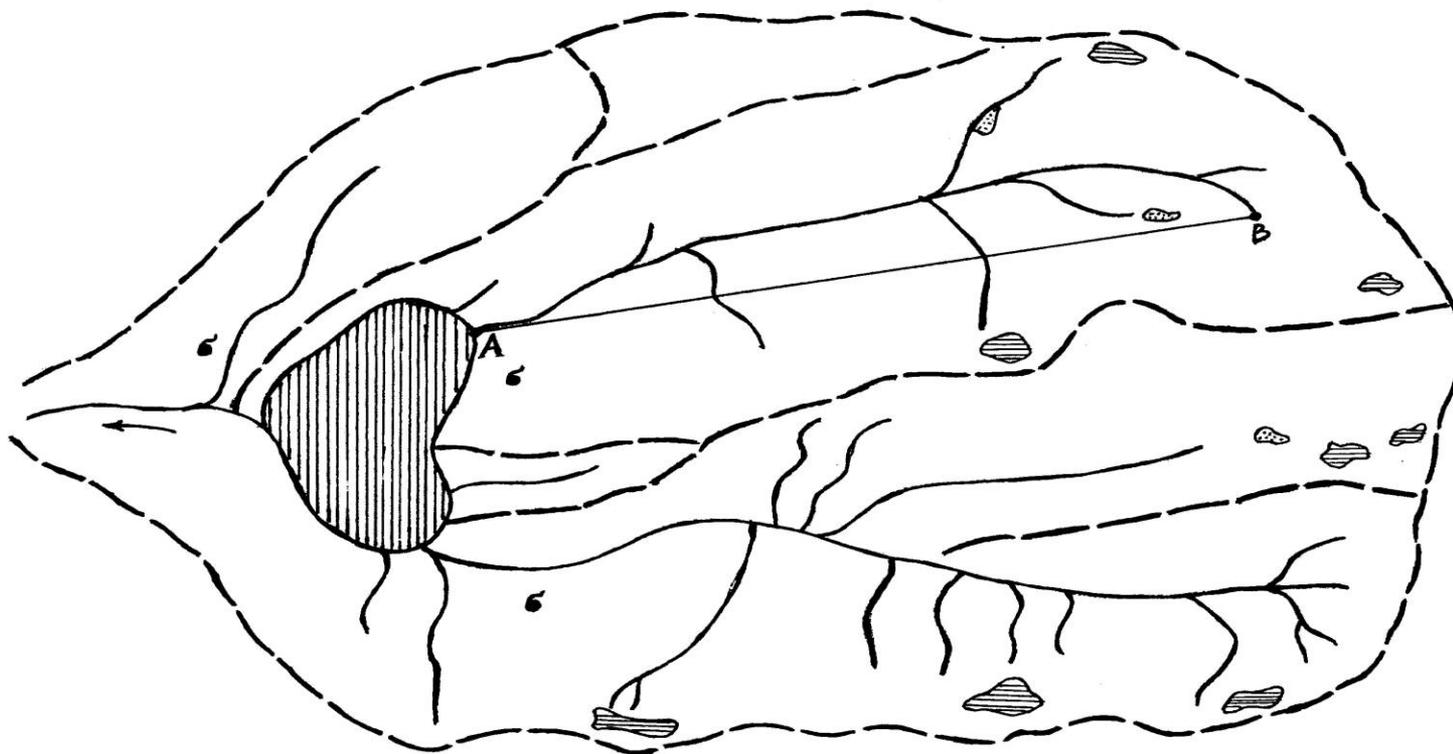
Аҳолиёеёеёе **қоёе іқеіеёе** іеёеёеёе аё
ёеёеёеёе іқеёе оаёеёеёе ёеёеёе ёеёеёеёе.
Ао қеёеёеёе оаёеёеёе ёеёеёеёе
іаёеёеёеёе іқеёеёеёеёе ёеёеёе
аёеёеёеёе. Аёёеёеёеёе қеёеёеёеёе
дарёнинг қуйи оқимида аҳоли
оқолиёеёе аўеёеёеёе оіаёеёе ёеёе іеқаёеёе
ёеёеёе аёеёеёе.

Дарё тармоғи чизмаси



Дарё тармоғи(системаси) ва гидрографик тўр

Маълум бир худудаги дарёлар, уларнинг ирмоқлари, булоқлар, кўллар, ботқоқликлар, музликлар, доимий қорликлар шу худуднинг гидрографик тўрини ҳосил қилади. Демак, дарё системаси гидрографик тўрнинг бир қисмидир.



8-расм. Дарё системаси ва гидрографик тўр.

- дарёлар, — тоғ тизмалари(сувайирғичлар),
- ☉ музлик, ☉ кўллар, ☉ булоқлар,
- ☉ сув омборлари, ← дарё оқими йўналиши.

Дарёларнинг бошланиши

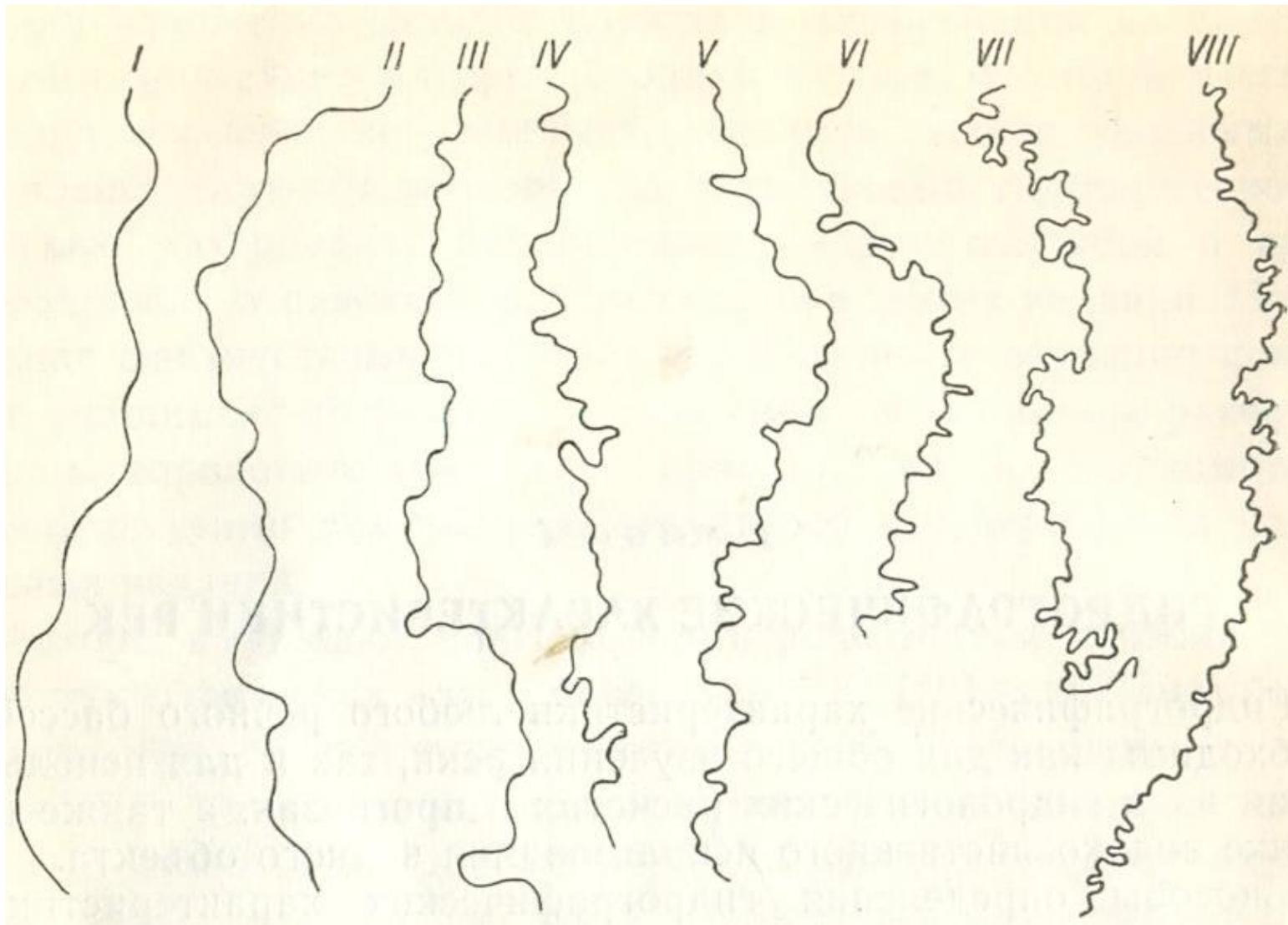
Булоқлар

Сизот сувлари

Ботқоқликлар

Кўллар

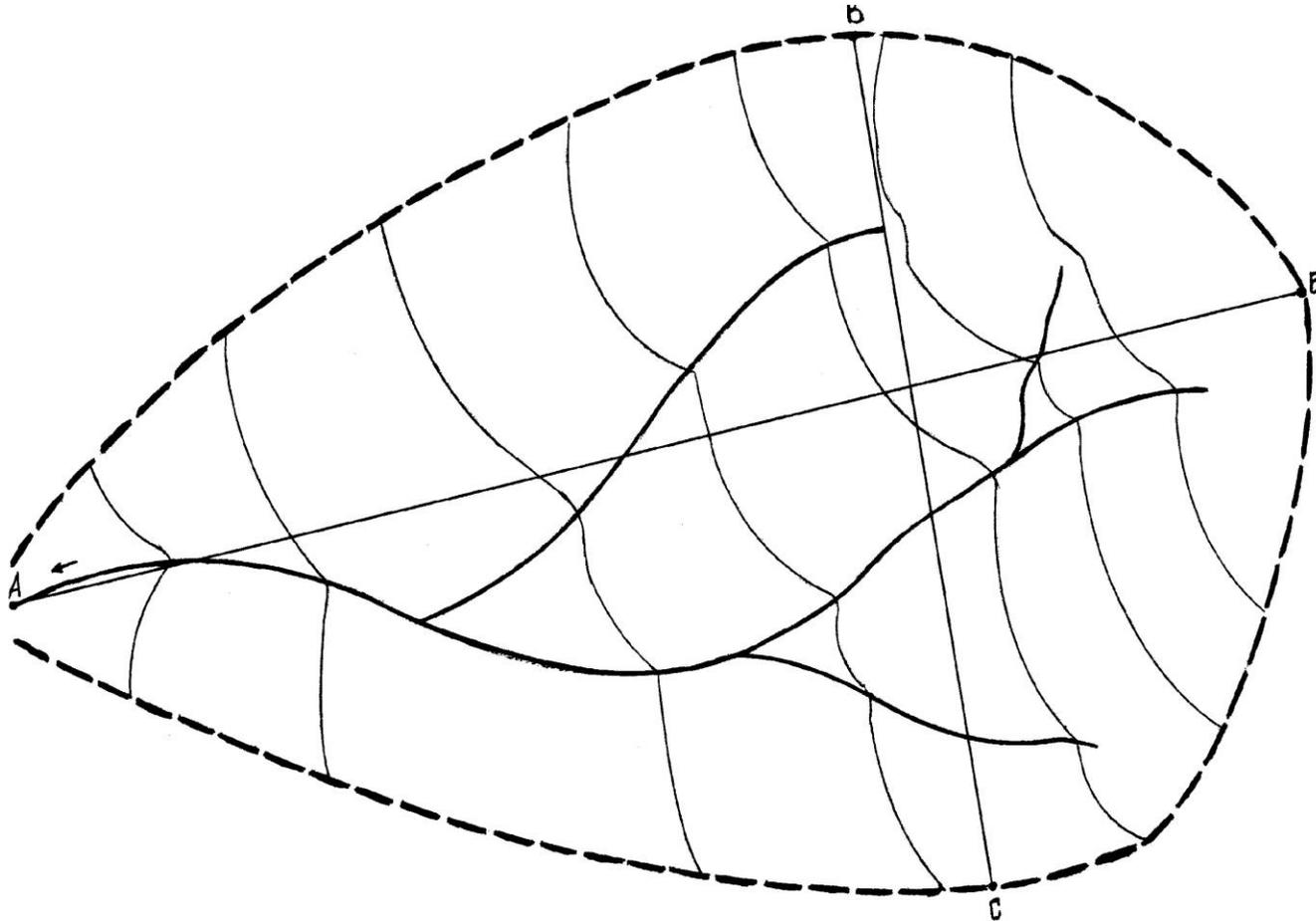
Доимий қор ва музликлар



Дарёларнинг эгри-бугрилиги

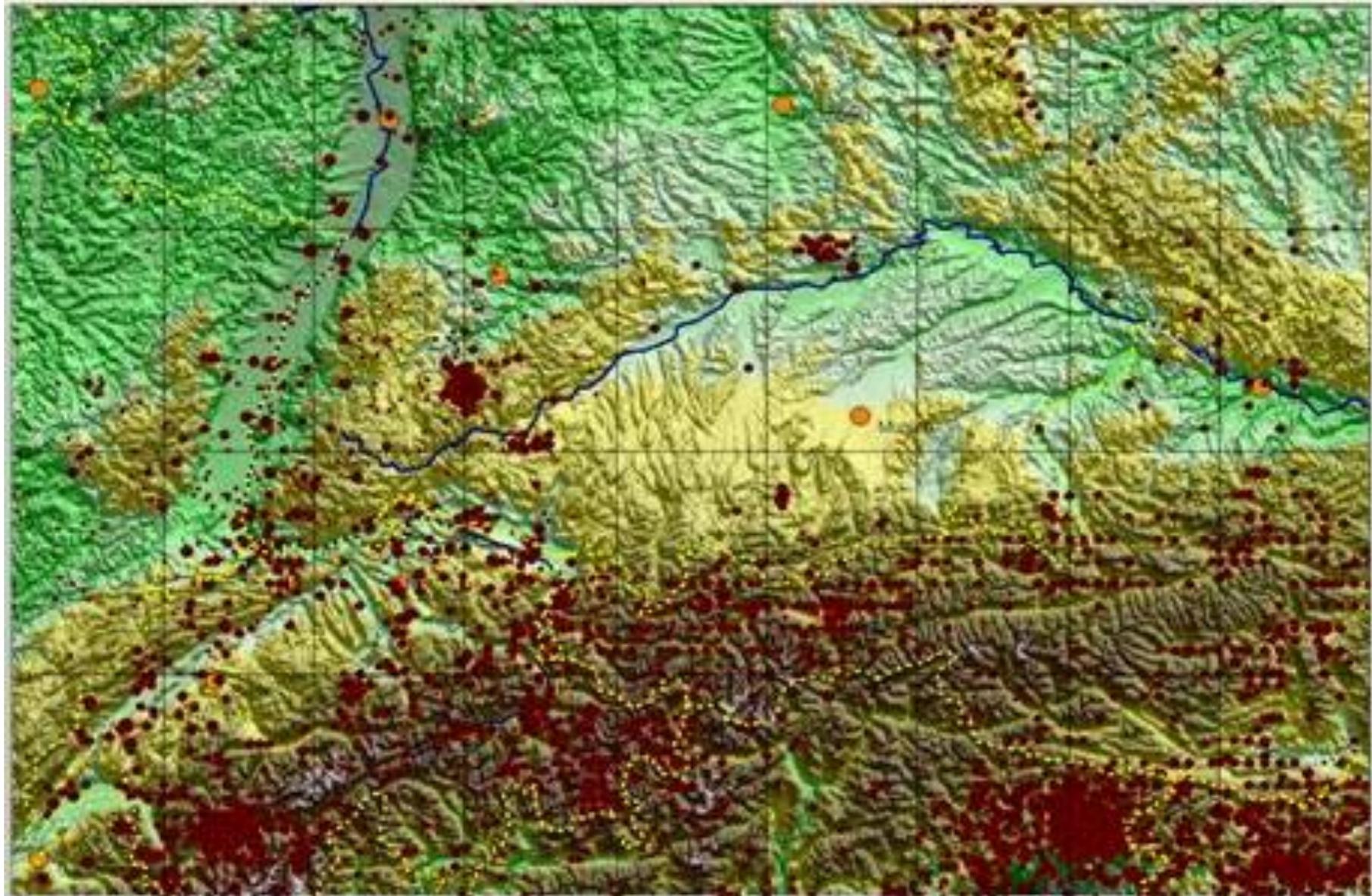
Дарё хавзаси

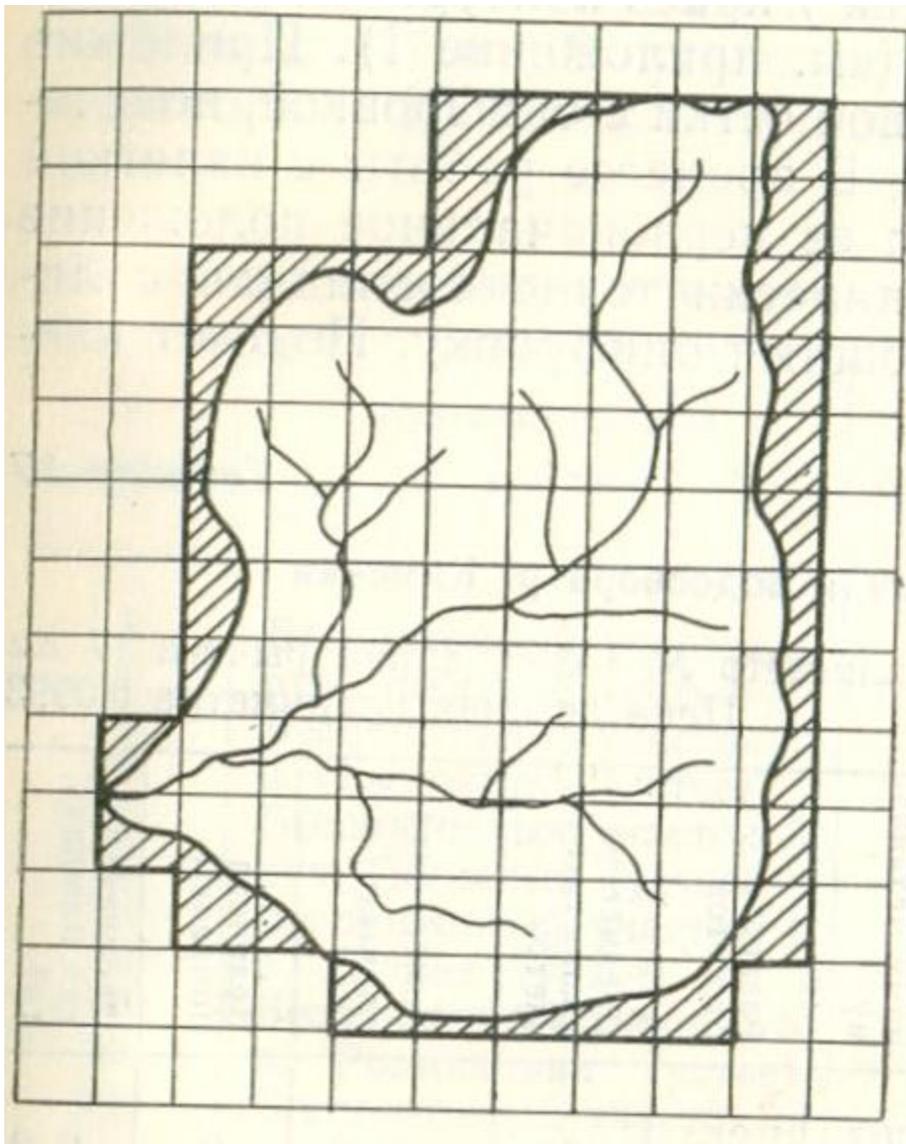
Қўшни дарё ҳавзасидан сув айиргич билан ажралган ер юзасининг бир қисми шу тармоқнинг **дарё ҳавзаси** деб аталади.



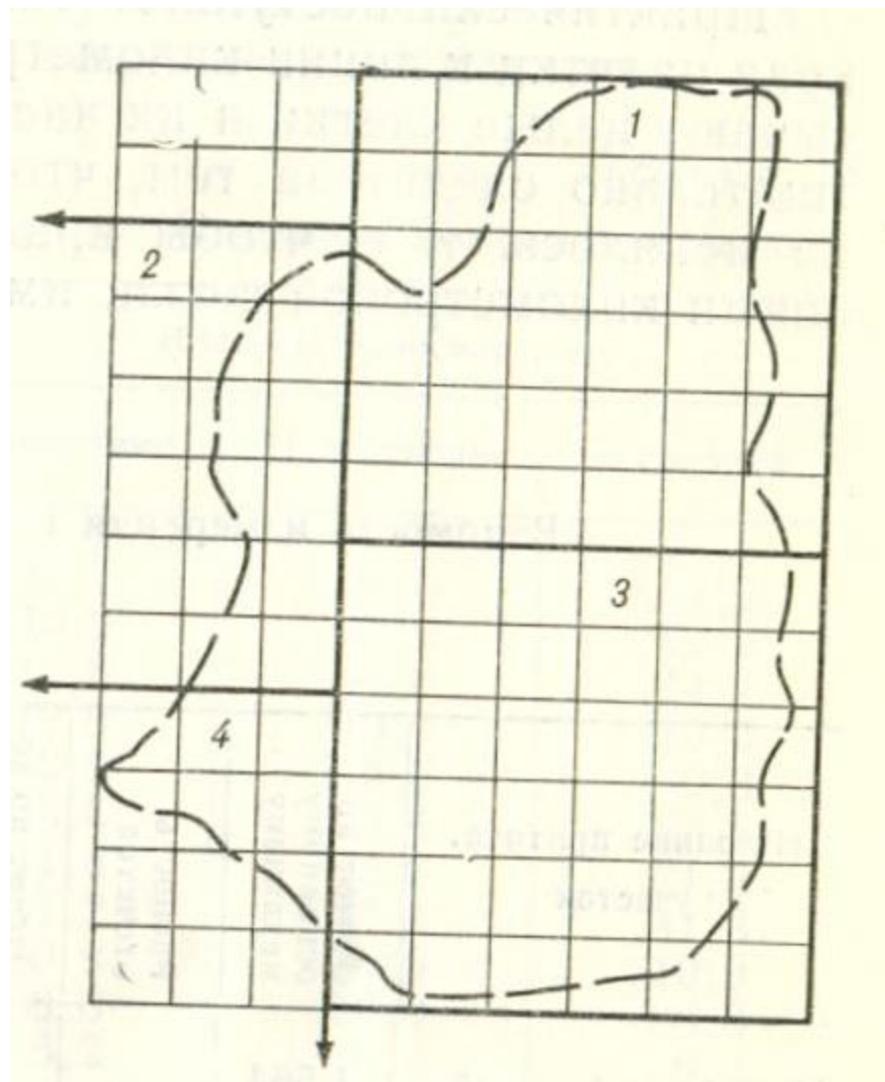
9-расм. Дарё ҳавзаси.

~ дарёлар, -- сувайирғичлар,
~ горизонталлар, ← дарё оқими йўналиши.
АБ ҳавзанинг узунлиги, ВС ҳавзанинг максимал кенлиги

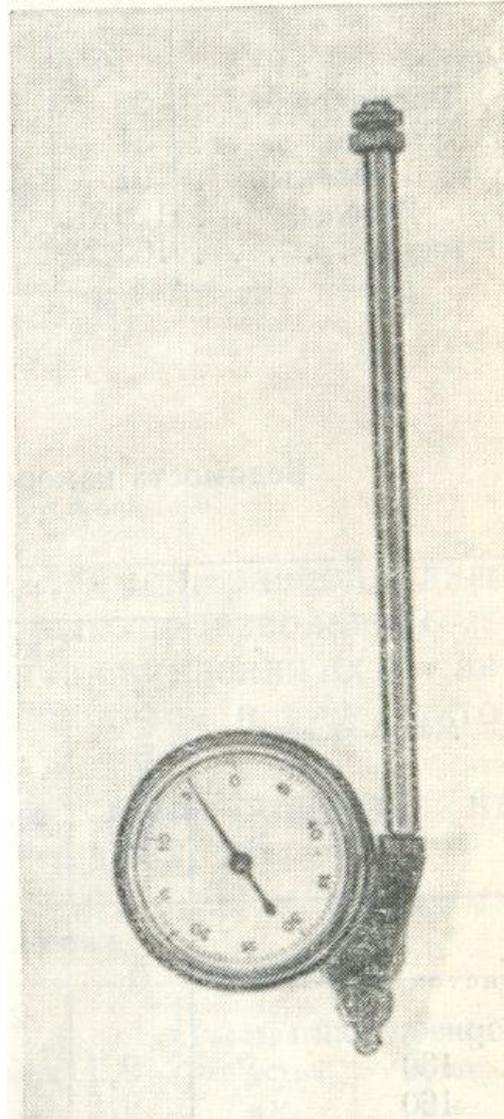




Планиметрлаш орқали дарё ҳавзасининг
майдонини аниқлаш



Палетка орқали дарё ҳавзасининг
майдонини аниқлаш

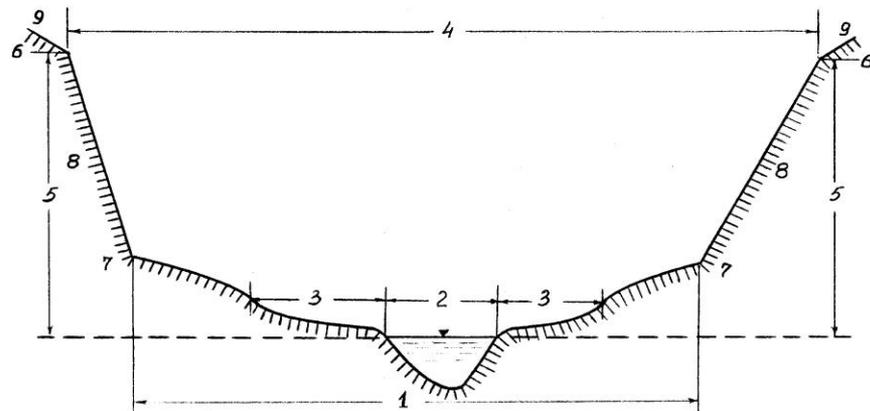
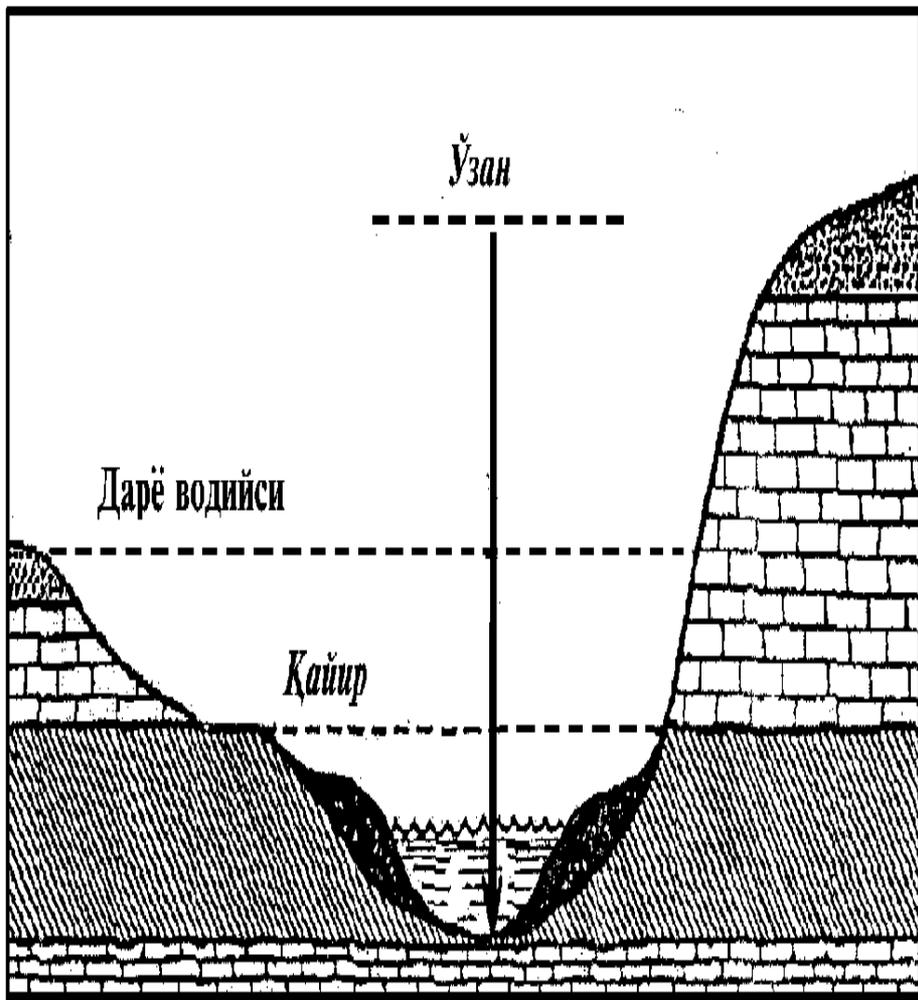


Токомиллаштирилган КС кувриметри

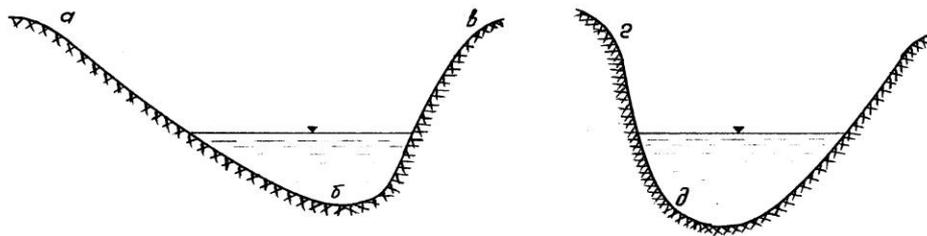
Äàď, çàâçàñèíèíã асосий øàêë âà ÿë÷àì êÿďñàòèè÷ëàðè



Дарё водийсининг тузилиши чизмаси



11-расм, А. Дарё водийсининг кўндаланг қирқими
 1—водий туби, 2—дарё ўзани, 3—қайир,
 4—водий кенгаги, 5—водий баландлиги,
 6—водий қоши, 7—ёнбағир пойи,
 8—водий ёнбағирлари, 9—водийга туташ ерлар.



11-расм, Б. Дарё қирғоғининг турлари
 аб—ётиқ қиргоқ, бв—нисбатан тик қиргоқ,
 га—жарсимон қиргоқ.

Дарё водийсининг элементлари

Дàð, ўçàíè-âîäèéíèíã îçàð ñóâ ýãàëëäãàí çèñìè

Καέέð-ääð, äà òíøçèí, èè òýëèí ñóâ êóçàòèëäãíäà âîäèéíèíã ñóâ áíñàäëãàí çèñìè

Bîäèé òóáè-ääð, ўçàíè âà çàéèð áèðãàëëèää âîäèé òóáè äãá àòàëäèè

Tàððàñàèèð-íáàçèðèäðäããè äîðèçííòàè, èè áèð îç çèýëèèèà ýãà áýëãàí ìáéãíí÷àèèð;

Ëíáàçèðèèð-âîäèé òóáèèè èèèè, íäãí ÷ããàðèèää òóðóã÷è àà äàð, ãà çàðãà çèý æíéèàðãàí ìáéãííèèð

Bîäèé çíøè-âîäèé óçóíèèèè áýéè÷à, íáàçèðèèðèííã ýíã çíðèè íóçàèèèèèè òóòàøðèèðãã÷è ÷èçèç

Tàëüããã-ääð, óçóíèèèè áýéè÷à ўçàíäããè ýíã ÷óçóð íóçàèèèèèè òóòàøðèèèèèèè ýãðè ÷èçèç

Дарёларнинг тўйиниш манбалари

Ўмғирлар

Ер ости
сувлари

Дàđ, ёàđ
òўéèíèøèíèíã òўđò
ìàíáàè

Қор қатлами

Тоғлардаги қор ва
музликлар

Мустақил ишлаш учун топшириқ

1. Дарё ҳавзасида кечадиган сув эрозияси ва унинг таснифлари
2. Дарёларнинг энергияси ва иши