

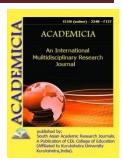
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SALINE SOILS OF ARID TERRITORIES OF THE SOUTHERN ARAL SEA REGION AND METHODS OF STUDY FOR MONITORING

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ABSTRACT

The article deals with the issues of soil salinization in the arid territories of the Southern Aral Sea region. In irrigated soils, there is a fairly even distribution of nitrates along the soil profile. The development of secondary salinization in the region can be considered as one of the existing problems that arose as a result of the widespread development of irrigation, which determined the transfer of automorphic soils. This issue requires some elaboration of new approaches to the development of irrigation in the region.

KEYWORDS: Southern Aral Sea Region, Soil Salinization, Monitoring, Soil Physical Condition, Irrigation, Fertility.

REFERENCES

- **1.** Averyanov S.F. Combating salinization of irrigated lands. M.: Kolos. 1978. -- 265 p.
- **2.** Aydarov I.P. Regulation of water-salt and food regimes of irrigated lands. M .: Agropromizdat. 1985. 275 p.
- **3.** Reclamation of soils, Saline soils: textbook, manual // Lopatovskaya OG, Sugachenko A.A. Irkutsk: Irkut Publishing House. State un-ta. 2010. 101 p.



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- **4.** Pankova E.I. Salinization of irrigated soils of the Central Asian region: old and new problems // Arid ecosystems, 2016, volume 22, no. 4 (69), p. 21-29.
- **5.** Shirokova Yu.I., Morozov A.N. Environmental problems of saline irrigated lands [Electronic resource]. http://water-salt.narod.ru/eko_prob_z_z_uz.htm (as of 01.03.2017)
- **6.** Pankova Je.I., Aidarov I.P. 2010. Secondary Salinization of Soils in the Aral Basinas a Factor of Anthropogenic Desertification // Nova Seience Publishers. Inc. NewYork. Vol. 2. P. 189-216.
- **7.** Zhumamuratov A. Study of the elemental shift in the composition of soils by the method of mathematical modeling during crop rotations. BULLETIN OF KCO AN RUz. −Nukus, 2005. №1-2. -WITH. 54-57
- **8.** Ismayilov U.E. Scientific basis for increasing soil fertility. Nukus, "BILIM", 2004, 186 p.
- **9.** Zhollybekov B. et al. Heavy metals in atmospheric dust and soils of the Southern Aral Sea region. // Bulletin of the KCO AN RUz. 1997. No. 4. -S. 32-35.
- **10.** Tashkuziev M.M. The current chemical and physicochemical state of irrigated soils in the lower reaches of the Amu Darya and related issues of fertility. // Uzbekistan tuprokshunoslik va agrokimyogarlar zhamiyatining VI-kuroltoi materialari.-Tashkent, 2005, -p. 109-120.