



## GOOD PRACTICE

### Title of the practice

Implementation of flood forecasting models coupled for Ukrainian and Belorussian parts of the Styr River (Pripjat River Basin)

### Detailed description of the practice

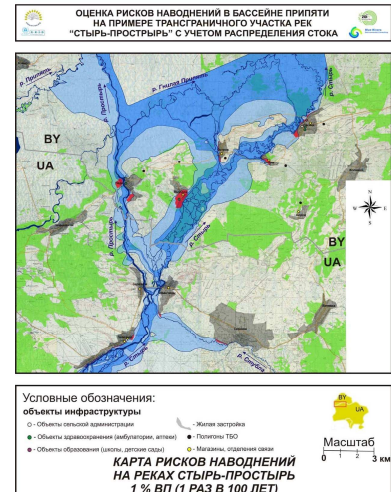
Organizations involved in the good practice: Central Research Institute for Complex Use of Water Resources (Belarus); Ukrainian Center on Environmental and Water Projects of Academy of Technology and Sciences (UCEWP), Kyiv, Ukraine; Ukrainian Hydrometeorological Institute (UHMI), Kyiv, Ukraine; Slovak Hydrometeorological Institute (SHMU), Bratislava, Slovakia. Good practice was reached in the frame of the Project “Flood Monitoring and Forecast in Pripjat River Basin” (Reference number # 983516) NATO Science for Peace and Security Program (SPS).

Main results of the project:

1. Establishment of 50 river cross-sections and maps of inundation zones and radionuclides transfer.
2. For the first time for Pripjat basin and for the first time in Republic of Belarus purchase of 4 automatic monitoring stations (2 in Ukraine and 2 in Belarus).
3. Purchase and installation of two central servers for the collection and analysis of data and the development of flood forecasting models at Hydrometeorological Centres in Belarus and Ukraine and installation of communication lines for the data transfer.
4. Training of young technical personal at the Hydrometeorological Centres in Belarus and Ukraine.
- 5 Modeling of rainfall-runoff processes based on historical records of flow and corresponding meteorological conditions and calculated hydrographs.
6. GIS data processing in the distributed hydrological modeling for the Styr river watershed in the Pripjat River Basin, where Rivne Nuclear Power Plant is located
7. Implementation of the contemporary flood forecasting models coupled for Ukrainian and Belorussian parts of the Styr River

### Evidence of success

Key elements of success: the NATO project has pushed the process of use of modern flood forecasting and radionuclides transfer models as well as modern types of equipment in the Pripjat basin. With these approaches quite visible results were achieved towards improvement of security of the people in the basin. A lot is still needed to be done.



### Location of the practice

Country: *Belarus*  
City: *Minsk*

### Contact details to obtain further information on the practice

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