Functionalities of Monitor IMGW-PIB
Data Presentation and Visualization System

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Functionalities of Monitor IMGW-PIB
Data Presentation and Visualization System

The major objectives of Monitor:

- Presentation and visualization of meteorological and hydrological data, warnings and forecast and other products created within IMGW’s National Hydro-Meteorological Service.

- Presentation and visualization of characteristics related to reservoirs and other data created within Water Management Boards.

- Assurance of operational mode usage and necessity to unlimited data access from any computer or mobile device in the World connected with the Internet.

- Ability to share products and functionalities to IMGW’s experts and wide range of key institutions involved in crisis situation management nation-wide. (Government Security Centre, Armed forces, Fire and Rescue Services, National and Regional Water Management Boards etc.).

- Creation of information platform where real time data and information provided from IMGW are presented in the same time and in the same manner for all Poland’s Services and Organisations responsible for decision making process during environmental disasters such as floods, storms, etc.
**Functionalities of Monitor IMGW-PIB**

Data Presentation and Visualization System

### Home page

- **Pull-down menu**

- **Language selection**

- **Station search**

- **Information about the current hydrological situation in the main river catchments in Poland.**

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<table>
<thead>
<tr>
<th>No.</th>
<th>Catchment</th>
<th>Alarm states</th>
<th>Warning States</th>
<th>High precipitation</th>
<th>Precipitation</th>
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*Showing 1 to 14 of 14 entries*
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Pull-down menu – Hydro Monitor

effective tool to create reports on the current and projected hydrological conditions definable by users

selection by catchment and other characteristics
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Pull-down menu – Meteo & Reservoirs Monitor

effective tool to create reports on the current and projected hydrological conditions definable by users
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Meteorological stations

For the meteorological stations Monitor presents real time data of hourly and daily sum of the precipitation, air temperature, relative humidity and wind speed and direction. Data is presented on charts and in tables.

Once recorded and identified high and possible danger precipitation, appears as a red dot beside station name with information of intensive rain.
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Meteorological stations

ŚWIĘTY KRZYŻ (250210050) - Precipitation

Station: ŚWIĘTY KRZYŻ (250210050)
River: Pokrzywianka
Precipitation from past hour: 0.1 mm (2013-06-21 11:00 UTC)
Precipitation from past 6 hours: 0.2 mm
Precipitation from past 24 hours: 0.5 mm (2013-06-21 06:00 UTC)
Maximal 24-hour sum: 
Comparative maximal hourly precipitation:

Charts and data
Hydrological - water level - stations

For the hydrological – water level - stations the Monitor presents real time data of water level both from telemetric sensors and observers. Based on the water levels and actual rating curves discharges are calculated for all the gauges.

Water levels and discharges data together with forecasts are presented on the hydrological chart.

All of them can be also drawn on the river’s cross section chart predicting potential state of the water’s surface.

Real time data with historical data, alerts and warnings states are possible to compare on the same charts taking into consideration local conditions such as cross section, river banks etc.
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Hydrological stations

KRAKÓW-BIELANY (150190340) - Average water level state

Station: KRAKÓW-BIELANY (150190340)
River: Wisła (2) (69.2 km, 7634 km²)
Current state: 165 cm (2013-06-21 12:00 UTC, 800002A)
Previous state: 164 cm (2013-06-21 11:50 UTC)
Alarm state: 520 cm
Warning state: 370 cm
Updated: 00 minutes, 48 seconds ago at 2013-06-21 12:11 UTC
Trend: no change

H = 165 cm, 199.14 AMSL

Charts and data »
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Wykres przepływu

- Pokaż prog
- Prognoza przepływu opad-odpływu (Aladin)
- Prognoza przepływu opad-odpływu (COSMO)
- Prognoza przepływu opad-odpływu oficjalna.


Przepływ Q [m³/s]

- RABKA 2
- Prognoza przepływu opad-odpływu (COSMO)
- RABKA 2 - SWQ - średni wysoki przepływ: 31.7 [m³/s]
- RABKA 2 - SSQ - przepływ średni ze średnich rocznych przepływów: 1.31 [m³/s]
- Prognoza przepływu opad-odpływu (Aladin)
- RABKA 2 - WWQ - najwyższy wysoki przepływ: 88.2 [m³/s]
- RABKA 2 - Granica górna przepływów średnich: 5.01 [m³/s]
- RABKA 2 - Granica dolna przepływów średnich: 0.63 [m³/s]

Dane przepływów pochodzą maksymalnie społęd 72 godzin.
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Hydrological – reservoir – stations

For the reservoirs Monitor presents real time data of inflow and outflow volume and reservoir water level state. All of the data and information are presented on the charts with the thresholds conducted for the flood danger levels.
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Map
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**Precipitation & thunder storms**

Precipitation analyses
Monitor includes tools presenting precipitation over last three hours based on the IMGW’s meteorological radar network.
Monitor includes product presenting precipitation forecast in catchments for next 1-3-6-12-24-48 hours based on numerical meteorological models ALDIN & COSMO.
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Hydrological warnings
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Meteorological warnings

![Map with weather warnings]

**Województwo podkarpackie - Hazard 2 level for area**

- **Duration:** From 2013-06-21 15:00 to 2013-06-22 06:00
- **Phenomena:** Burze z gradem (level: 1; probability: 80%)
- **Created:** 2013-06-21 07:41 by Adam Michniewski (Centralne Biuro Prognoz Meteorologicznych Kraków)
- **Comment:** Nadal obowiązuje ostrzeżenie nr 39 wydane o godz. 14:30 dnia 17.06.2013.
- **Number of warning:** 53

- **Duration:** From 2013-06-21 15:00 to 2013-06-22 06:00
- **Phenomena:** Upał (level: 2; probability: 80%)
- **Created:** 2013-06-17 14:30 by Łukasz Kieł (Centralne Biuro Prognoz Meteorologicznych Kraków)