



# GEOLOGICAL MAP OF KRYNICA SPA

0 500 1000 m





Nestor Oszczytko & Witold Zuchiewicz (1996-1999)

DIGITAL BASE MAP AFTER S. ŻAK (1999)











## BYSTRICA SUBUNIT

-  Mniszek Shale Member (Middle Eocene)  
a - variegated shales
-  Maszkowice Sandstone Member (Middle Eocene)  
a - Łącko marls

## KRYNICA SUBUNIT

-  Piwniczna Sandstone Member (Middle Eocene)  
a - conglomerates
-  Zarzeczce Formation (Lower - Middle Eocene)
-  Krynica Sandstone Member (Lower - Middle Eocene)  
of the Zarzeczce Formation
-  Szczawnica Formation (Palaeocene - Lower Eocene)

## QUATERNARY SEDIMENTS




-  solifluction and slopewash covers
-  colluvium of inactive landslides
-  colluvium of active landslides
-  gravels, sands & clays of terraces 35-40 m high (T<sub>1</sub>)
-  gravels, sands & clays of terraces 20-30 m high (T<sub>2</sub>)
-  gravels, sands & clays of terraces 15-20 m high (T<sub>3</sub>)
-  gravels, sands & clays of terraces 10-12 m & 6-8 to 7-10 m high (T<sub>4</sub>)
-  gravels, sands & clays of terraces 4-6 m high (T<sub>5</sub>)
-  gravels, sands & clays of terraces 2-3 m high (T<sub>6</sub>)
-  alluvial fans

## ORGANOGENIC SEDIMENTS






-  calcareous tufas

KF, TF, SF, JF, PF, DF, HF, GPF - Krynica, Tylicz, Słotwina, Jaworzynka, Powroźnik, Drobiakówka, Hawrylakówka and Góra Parkowa faults, respectively











## FAULTS

-  inverse fault
-  overthrust
-  fault
- A—B cross-section line





## GEOMORPHIC FEATURES

-  catchment boundary
-  landslide scar
-  slumps
-  terrace and alluvial fan risers
-  undermined slopes

## HYDROGEOLOGICAL FEATURES

-  marsh
-  wells with mineral water (eg. B-1, Z-I)
-  wells with fresh water
-  well
-  captured springs
-  seepage
-  spring of mineral water
-  spring
-  CO<sub>2</sub> exhalations
-  CO<sub>2</sub> occurrences in water

## Outflow (July - August 1998)

-  < 0.01 dm<sup>3</sup>/s
-  0.01 - 0.1 dm<sup>3</sup>/s
-  0.1 - 1.0 dm<sup>3</sup>/s
-  1.0 - 10.0 dm<sup>3</sup>/s

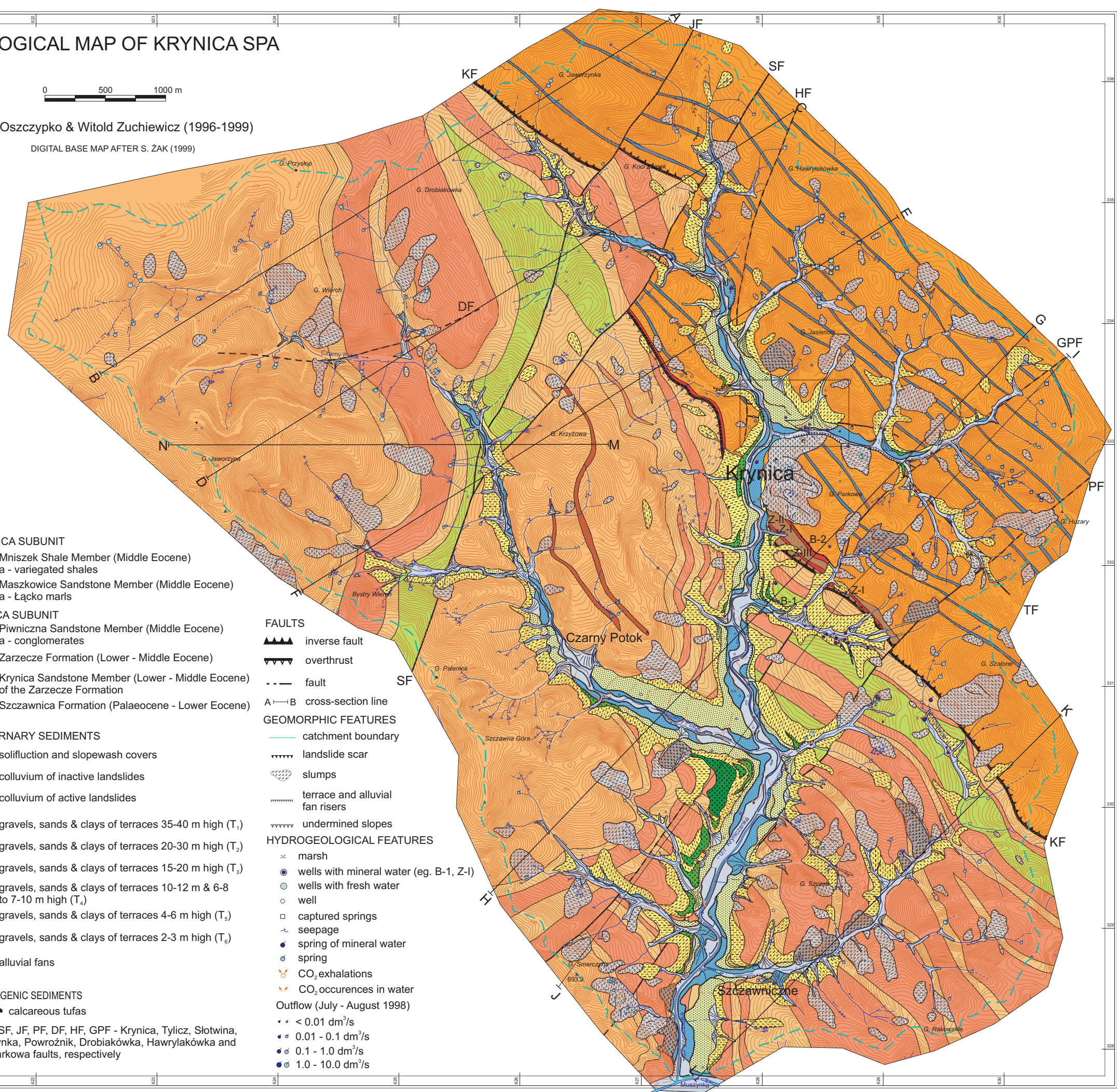


Fig. 2. Geological map of the Krynica Spa area (Oszczytko, N. & Zuchiewicz, W., 2007. Geology of Krynica Spa, Western Outer Carpathians, Poland. *Annales Societatis Geologorum Poloniae*, 77: 69-92)