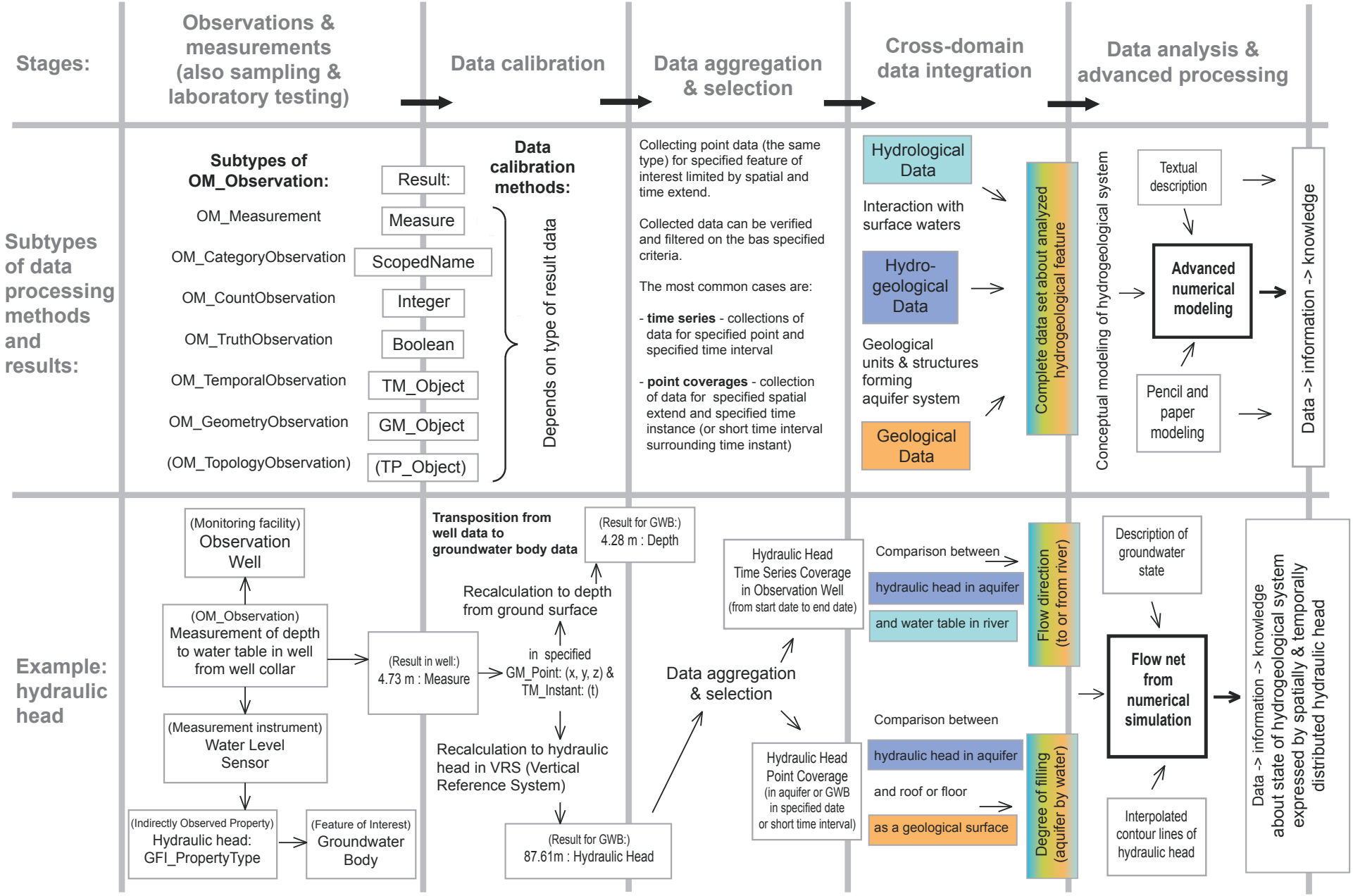Groundwater data processing chain