

	Geophysical systems		
	I. Six -frequency electromagnetic system (HEM)		
	Function	Investigation of the underground electric conductivity down to a maximum depth of about 150 m	
	Frequencies	386, 1820, 5490, 8330, 41400 and 133200 Hz	
	Coil separations	7.938, 7.931, 9.055, 7.925, 7.912 and 7.918 m	
ठ	Coil orientations	5 × horizontal coplanar, 1 × vertical coaxial (5490 Hz)	
Bird	Manufacturer	Fugro Airborne Surveys (FAS), Canada	
	Туре	RESOLVE, BKS36a (Bird 61)	
	II. Caesium magnetometer		
	Function	Recording of the total magnetic intensity of the earth	
	Manufacturer	Geometrics, USA	
	Туре	G-822A	
	III. Gamma-ray spectrometer		
Helicopter	Function	Recording of the energy spectrum of natural and man-made gamma radiation within a range of 0 to 3 MeV	
	Manufacturer	Exploranium, Canada	
	Туре	Spectrometer: GR-820; Detector crystals: GPX-1024/256	

Base station		
Magnetic base station		
Function	Recording of the variation of the total magnetic intensity (TMI)	
Manufacturer	Base station: FAS, Canada	
	Magnetometer: Cs sensor H-8, SCINTREX, Canada	
Туре	CF1 Data Logger	



	Systems for navigation and positioning		
oter	Navigation system		
	Function	On-line determination and display of the GPS navigational data required by the pilot during a survey flight; recording of the geographic position of the helicopter and its altitude above mean sea level	
Helicopter	Manufacturer	Navigation computer and display: FAS, Canada GPS receiver: NovAtel, Canada	
	Туре	Navigation computer: HeliDas GPS receiver: NovAtel OEMV-2-L1/L2 GPS antenna: NovAtel L1/L2 ANT-532-e	
	Positioning system		
Bird	Function	Determination and recording of the geographic position of the HEM bird and its altitude above mean sea level	
	Manufacturer	Position recording and display: FAS, Canada GPS receiver: CSI Wireless, Canada	
	Туре	Position recording: HeliDas GPS receiver: DGPS MAX	

	Altimeters		
	Radar Altimeter		
	Function	Recording of the altitude of the helicopter above ground level	
پ	Manufacturer	Sperry, USA	
opte	Туре	AA-200	
Helicopter	Barometric Altimeter		
Ė	Function	Recording of the altitude of the helicopter above mean sea level	
	Manufacturer	Rosemount, USA	
	Туре	1241A5B	
	Laser Altimeter		
Bird	Function	Precise recording of the altitude of the HEM bird above ground	
	Manufacturer	Riegl, Austria	
	Type	LD90-3800VHS	

	Data acquisition and recording systems		
Helicopter	Function	Digitizing of the analogue signals, buffering of all digital data; flight path and displaying of selected data channels; storage of position and field data on CF card ready for processing with GEOSOFT OASIS montaj	
	Manufacturer	FAS, Canada	
	Туре	HeliDas	

	Video system		
_	Function	Recording of the flight track and monitoring of the movements of the HEM bird during take-off, landing and flight	
Helicopter	Manufacturer	Colour camera: Sony, Japan Video recorder: AXI, Sweden	
Ĭ	Туре	Colour camera: DC372P Video server: AXIS 241S	

Additional equipment		
	Central power unit	
Helicopter	Function	28 V DC on-board voltage of the helicopter buffered by a 24 Ah buffer battery and connected to a central power unit
	Manufacturer	Sikorsky, USA
	Instrument rack	
	Function	19" rack on shock absorbers to mount all components of the airborne geophysical system
	Manufacturer	Sikorsky, USA