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2032

2023

2019

GEOSS, DMC, COPERNICUS

" -2-1", " -2-2" " -2 "

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GEOSS, DMC, COPERNICUS

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The aim of this paper is to analyze possible ways of using images from Ukrainian Earth remote sensing satellites which would allow Ukraine to enter the international scene with participation in international projects.

At present, the use of satellite images shows a rapid development. All over the world, new, nontraditional for Earth remote sensing customers, such as banks, insurance companies, large distribution networks, etc., have begun to realize the opportunities and benefits of using geoinformational technologies and space monitoring. The world trend is towards a full multiple cover of the whole of the Earth surface with a high spatial resolution during a year. Technologically, the key operators of Earth remote sensing space systems are already ready for this. Ukraine has not yet positioned itself as a country that could participate in satellite imagery, although the availabi-

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ity of Earth remote sensing satellites is declared in conceptual documents:

– the Concept of the State Policy of Ukraine in Space Activities up to 2032 declares a stationary constellation of Earth remote sensing satellites;

– the Draft State Target Scientific and Technical Space Program of Ukraine envisages the launch of two satellites, Sich-2-1 and Sich 2-2, and the experimental development of the Sich-2M satellite.

The ways of using images from Ukrainian Earth remote sensing satellites considered in this paper may be used in planning the operation of the Sich-2-1, the Sich-2-2, and the Sich-2M satellites in such a way as to allow Ukraine to enter the international scene, for example, through cooperation with international systems, such as GEOSS, DMC, COPERNICUS, etc.

Disaster Monitoring Constellation (DMC) – ()
2002
DMC
Satellite Technology Limited (SSTL) – Surrey
DMC, 2002 ., 12 . 1 [1].
DMC
Reuters AlertNet,
[2].
" -2 " " -2-2"
DMC 2,4 1,0 ,
2019 – 2023 .

Alsat-1		2002	90	–	32	600
Nigeriasat-1		2003	100	–	32	600
UK-DMC		2003	100	–	32	600
Bilsat-1*		2003	130	4	26	24,52
Beijing-1		2005	166	4	32	600
UK-DMC-2		2009	100	–	22	660
Deimos-1		2009	90	–	22	660
Nigeriasat-		2011	100	–	22	600
Nigeriasat-2		2011	300	2,5	5,32	20,32
DMC-3 (Beijing-3)		2015	447	0,75 – 1,0	4	23
*) 2006 .						

DMC

SSTL

TopSat,

2005 .

2,8 ,

– 5,7 .

SSTL.

TopSat

(24,9 . . ; 120 ; 2,8) –

TopSat

[3].

SSTL, 2011 ,

DMC

Nigeriasat-2

2,5 .

DMC-3 [4]

SSTL. 2011 .
Technology Company Ltd.)21AT (Twenty First Century Aerospace
100 %" " ;
Monitoring for Environment and Security) –
[5].

GMES (Global

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 6 , 60 3 ; -2
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 (2019-2023) -
 " -2-1". " -2-1" -
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 " " GEOSS.
 GEOSS (Global Earth Observation System of Systems) -
 43 , -
 , -
 [6]. -
 IGOS (International Integrated Global Observation Strategy) -
 , -
 [7].
 IGOS 6 : ;
 ; ;
 . IGOS -
 IGOS : UNFAO,
 (UNEP);
 ; ICSU;
 WMO;
 IOC.
 IGOS
 CEOS (Committee on Earth Observation Satellites), 1984 .
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