

*Σύμφωνα*

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( ) – ,  
 « » (R/R<sub>d</sub> = (R\*f)/(N\*H) <  
 1, R – , f = 2Ωsin – , Ω –  
 , – , N – - , H –  
 ), ω –  
 (Ro = ω/Ω > 1, Ro –  
 ).

, (R ≤ 10 ),  
 - . -  
 - ,

[Flierl and McGillicuddy, 2002].

« », « »,  
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 100–300  
 1970- [ , 1983]. 1980- ,  
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[Stevenson,

1998]. 2000

«Spirals on the sea» [Munk et al., 2000],

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 [ ., 2011; ., 2012].  
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[ , 1988].

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2013,  
, 2015; International Conference (school) on Dynamics of Coastal  
Zone of Non-Tidal Seas: 2 - Baltiysk (Kaliningrad Oblast) 2010; 3 –  
Gelendzhik,.2014; "  
. . . . , : 2 (2011) 3 (2012) 5(2014) 12 (2021) ,



2015; « »

1 (2015) 7 (2021);

, 2016; EMECS'11 SeaCoasts XXVI "Managing risks to coastal regions and communities in a changing world" -

2016; « : ».

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( 2).

**1.4**

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**1.5**

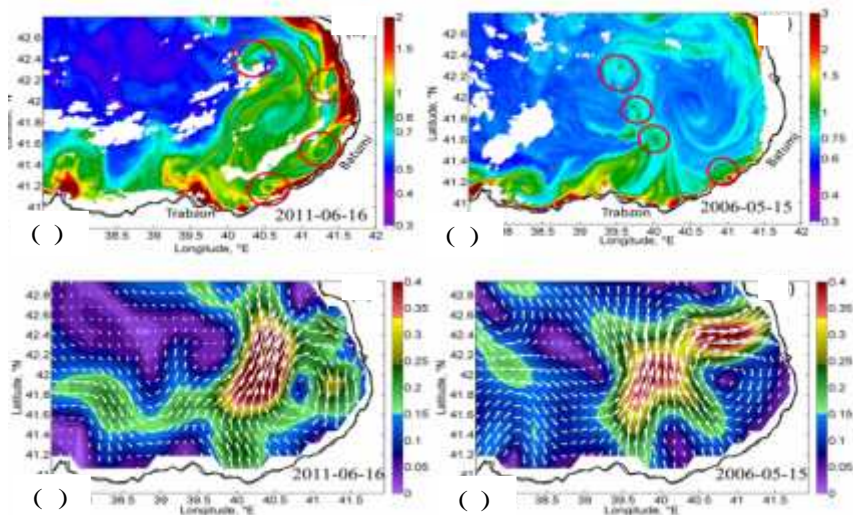
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$$- Ro_s = - \frac{\omega R_l}{fd}, \quad \omega -$$

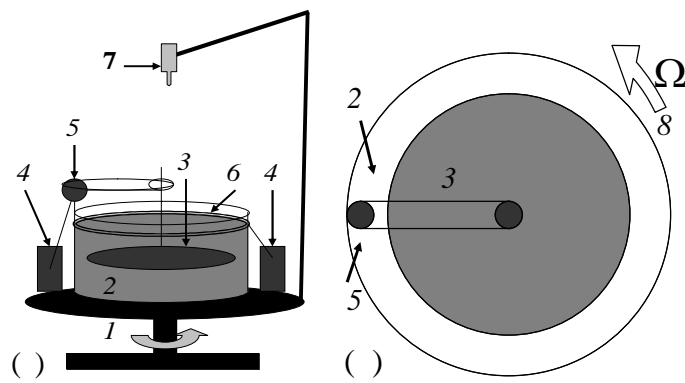
$$, R_l - , d -$$

$$, f - .$$

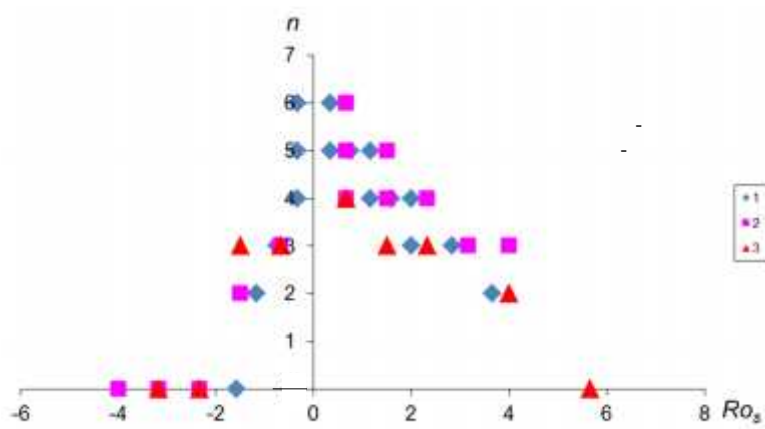
( 3).



1. : ) ) « » ( / <sup>3</sup>), ) ):  
 ( / ). , ) ) 16  
 2011 , ) ) 15 2006 .



2. : )- ; )- . 1-  
 ; 2- ; 3-  
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 ; 7- ; 8-



3.  $f = 1.25^{-1}, d = 6$  ; 3 -  $f = 2.5^{-1}, d = 3$  .  
 $1 - f = 2.5^{-1}, d = 6$  ; 2 -  $n - Ro_s$

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( Ro<sub>s</sub>) , (

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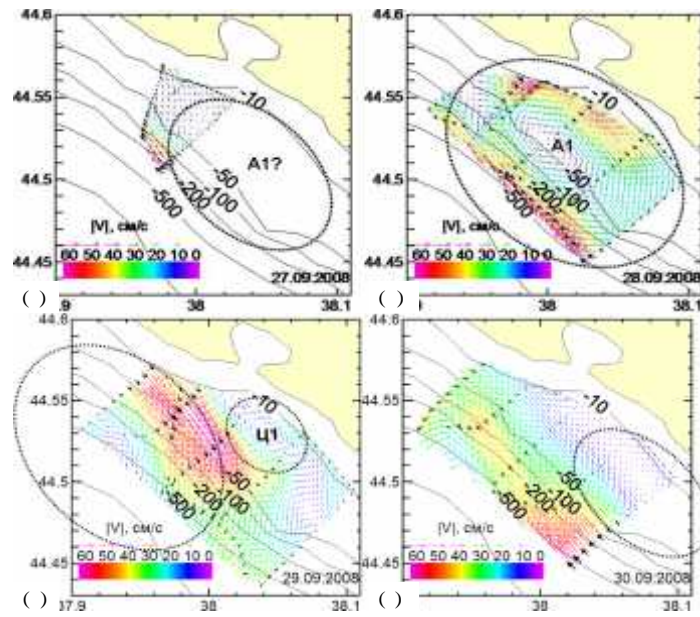
( 4). 2.2

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( 5).

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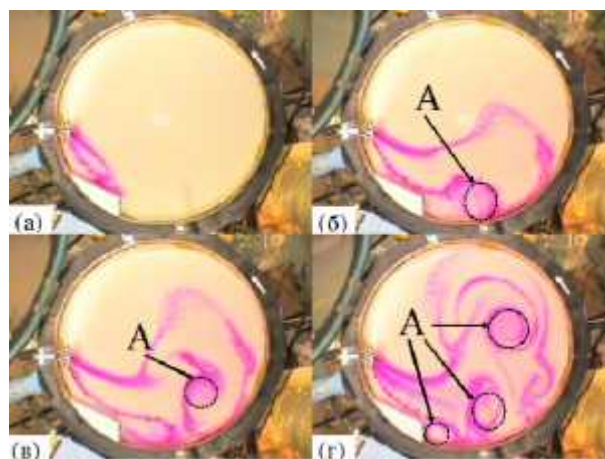
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(H = 5 )

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1 .c .

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 ,  $D$  – .  
 $V/Df$  , 6. ,

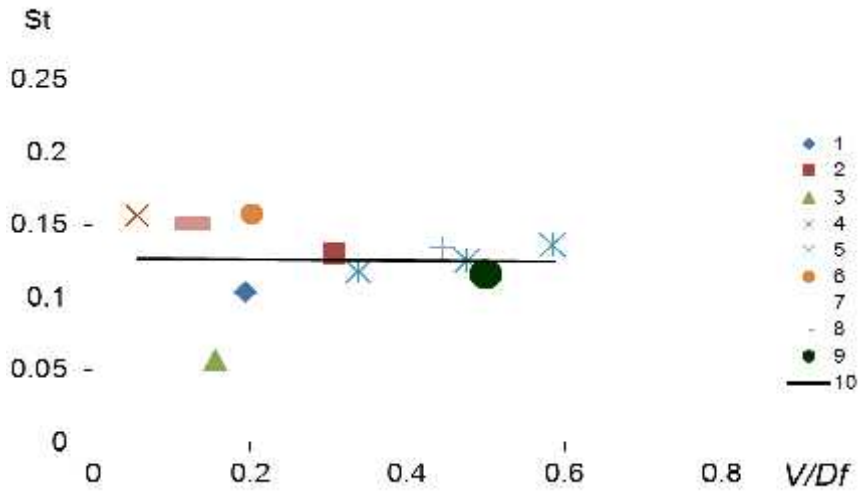
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6.

$V/Df$ . 1 –  $T_1=5$  c,  $T_2=5.9$  c; 2 –  $T_1=5$  c,  $T_2=6.8$  c; 3 –  
 $T_1=10$  c,  $T_2=13$  c; 4 –  $T_1=10$  c,  $T_2=20$  c; 5 –  $T_1=5$  c,  $T_2=5.9$  c  $\theta=0,074$ ; 6 –  $T_1=5$  c,  $T_2=5.9$  c, 7 –  $T_1=5$   
 c,  $T_2=5.9$  c  $\theta=0,5$  8 –  $T_1=5$  c,  $T_2=5.4$  c; 9 – 1 2 ( 5). 10 –

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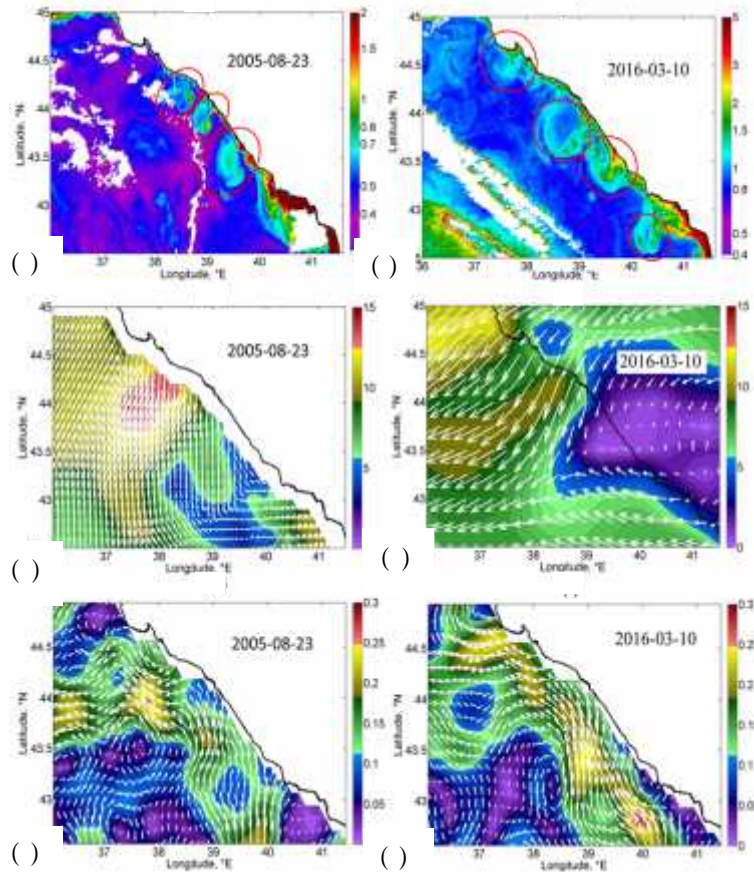
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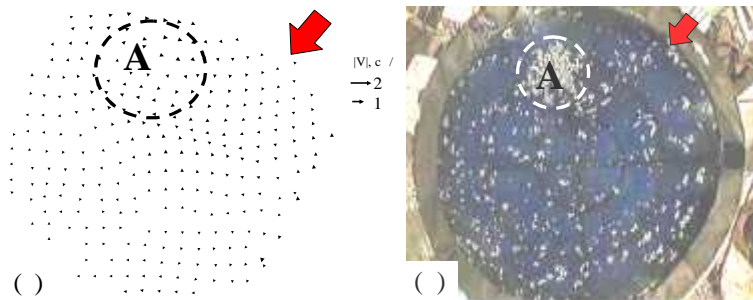
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7. : ) ) « » ( / <sup>3</sup>); ) ) ; ), ) )  
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