

Kamchatka peninsula

Korf gulf

Karaginsky gulf

Olutorsky gulf

Bering sea

**ABOUT DISTRIBUTION OF UNDERYEARLING SAFFRON COD
ON THE SHELF OF KARAGINSKY, KORF AND OLUTORSKY
GULFS OF THE BERING SEA**

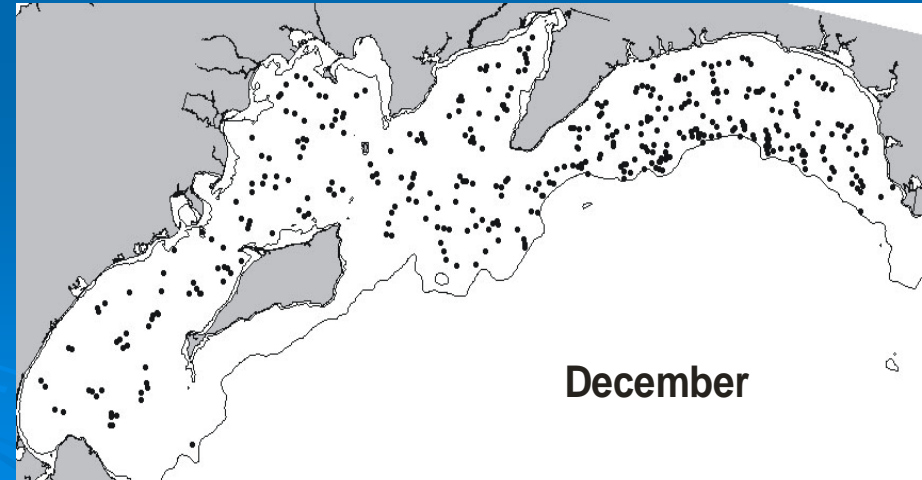
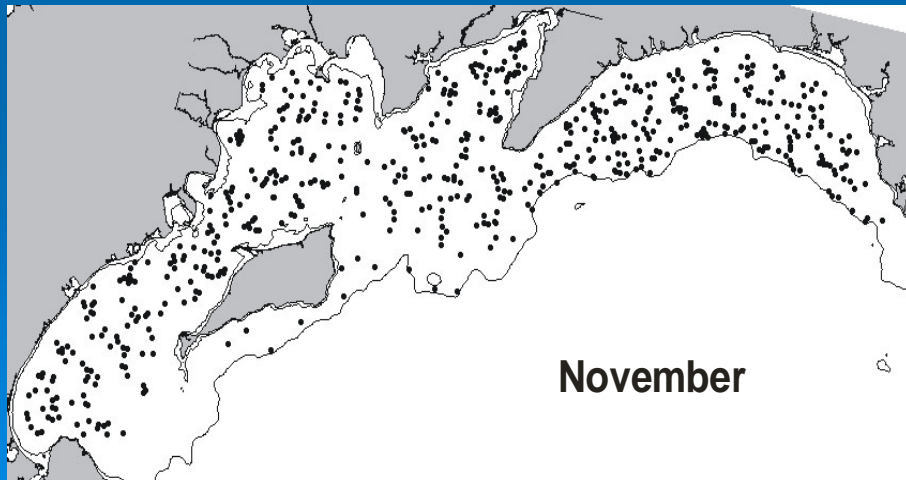
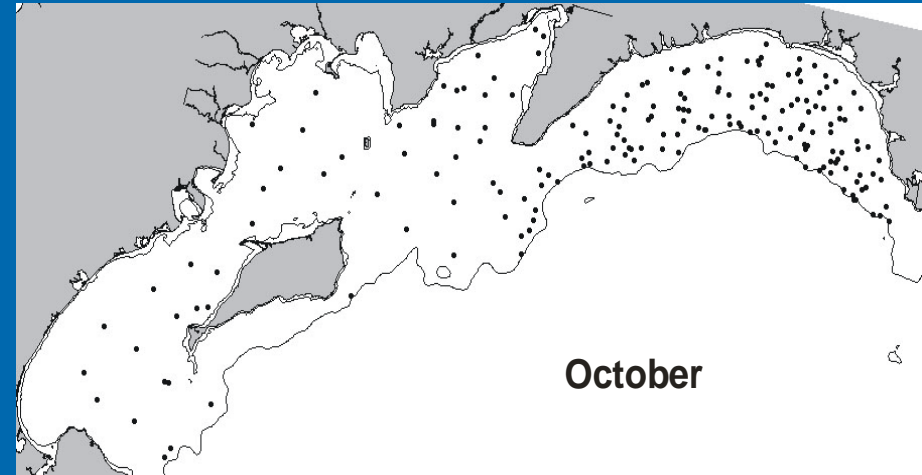
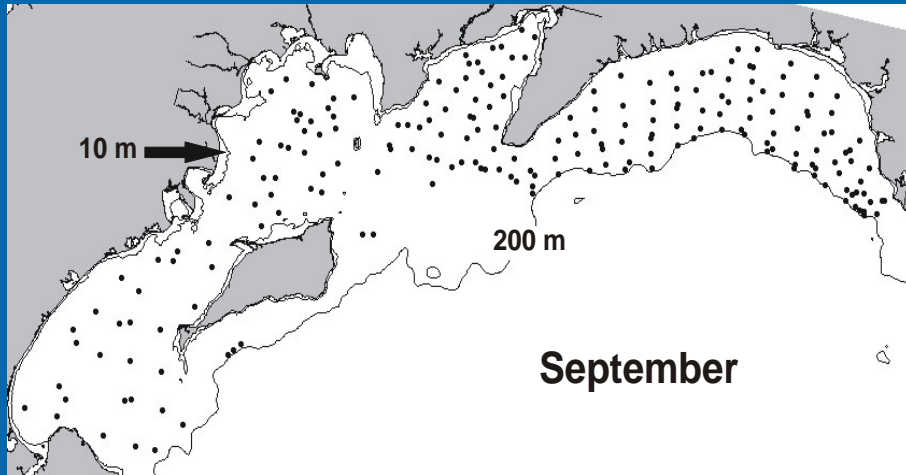
On the data of bottom trawl surveys for 1971-2006

Name of vessel/year of monthly bottom trawl surveying in the gulfs Karaginsky, Korf's and Olutorsky, 1971–2006

<p>I</p> <p>8-459/1972, Seskar/1979</p>	<p>II</p> <p>— 8-461/1980 —</p>	<p>III</p>	<p>IV</p> <p>—</p>	<p>V</p> <p>Pelamida/1971, Suchan/1972, 8-459/1971,1973, 8-438/1974, 8-449/1975, Yermaluk/1975, Sadgorod/1978, Zavitinsk/1981</p>	<p>VI</p> <p>Pelamida/1971, Suchan/1972, 8-459/1973, 8-449/1975, Yermaluk/1975, Kosmichesky/1976, Sadgorod/1978, 8-438/1974,1985</p>	<p>VII</p> <p>Pelamida/1971, Suchan/1972, 8-459/1973, 8-449/1975, Kosmichesky/1976, 8-438/1985, Antia/1988</p>
<p>VIII</p> <p>Pelamida/1971, 8-459/1973, 8-449/1975, Kosmichesky/1976, Mys Yunni/1983, 8-438/1985, Antia/1988, *P. Kaganovsky/2001</p>	<p>IX</p> <p>Pelamida /1971, Suchan/1972, Kosmichesky/1976, Mys Yunni/1983, Gorny/1985, Bagration/2001, P. Kaganovsky/2001</p>	<p>X</p> <p>8-459/1974, Artiom/1977, Nemirov/1982, Gorny/1985, Iolanta/1994, P. Kaganovsky/2001, Fortuna/2002, Bagration/2003,2005, Granit/2005, Umir/2006</p>	<p>XI</p> <p>8-459/1974,1976, Zavitinsk/1975, Artiom/1977,1979, Sadgorod/1980, Nemirov/1982, Eleninsk/1982, Uglekamensk/1983,1986, Gorny/1985, Shursha/1987,1988,1990 Zaliv Korfa/1993, Iolanta/1994,1995, Bagration/2000,2003, P. Kaganovsky/2001, Fortuna/2002, Umir/2006</p>	<p>XII</p> <p>8-459/1971,1976,1979, Pelamida/1974, Zavitinsk/1975, Artiom/1977,1979, Seskar/1978, Sadgorod/1980, Eleninsk/1982, Uglekamensk/1983, Gorny/1985, Shursha/1987,1988, Iolanta/1994,1995</p>		

*: Professor Kaganovsky

Scheme of bottom survey trawling on the shelf of Karaginsky, Korf's and Olutorsky Gulfs in September-December, 1971-2006



Depth and number of trawlings for bottom trawl surveys in 1971–2006, taken into account to study distribution of underyearling saffron cod

Month	I	III	V	VI	VII	VIII	IX	X	XI	XII
Minimum depth	50	70	19	15	20	15	18	20	15	17
Average depth	119	128	103	99	90	82	76	84	71	86
Number of trawlings	35	15	267	191	151	195	216	190	635	409

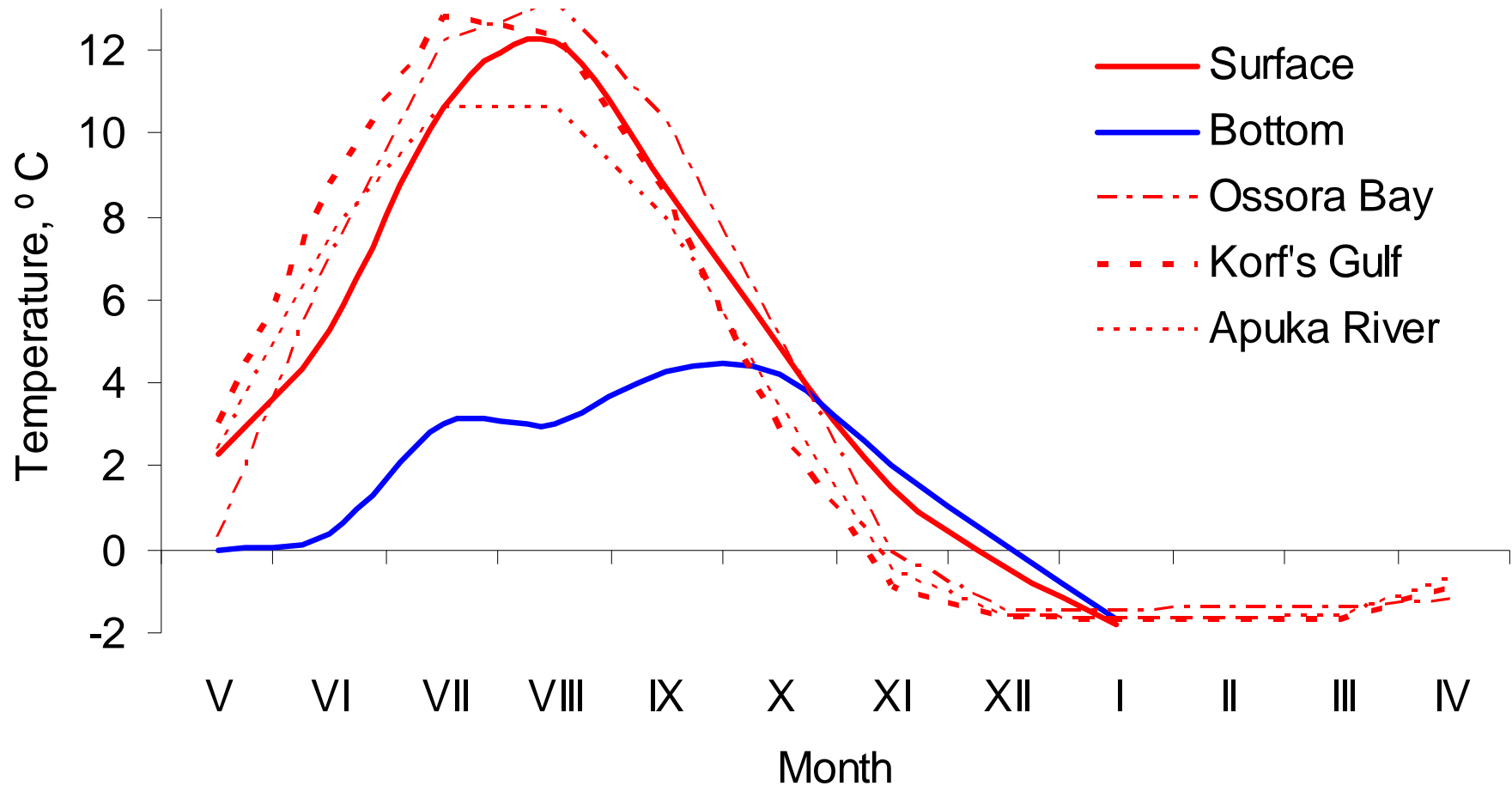
Monthly sample size of measuring water temperature near the bottom and on the surface during the trawl surveys in 1971–2006, taken into account to study distribution of underyearling saffron cod

Depth, m	Month									
	I	V	VI	VII	VIII	IX	X	XI	XII	
< 50 m	2	42	57	120	124	165	150	430	205	
51–200 m	66	359	298	230	312	391	454	832	592	

The hydrometeorological stations near the shore in the Ossora Bay, Korf's Gulf and the Apuka River outlet (Olutorsky Gulf)

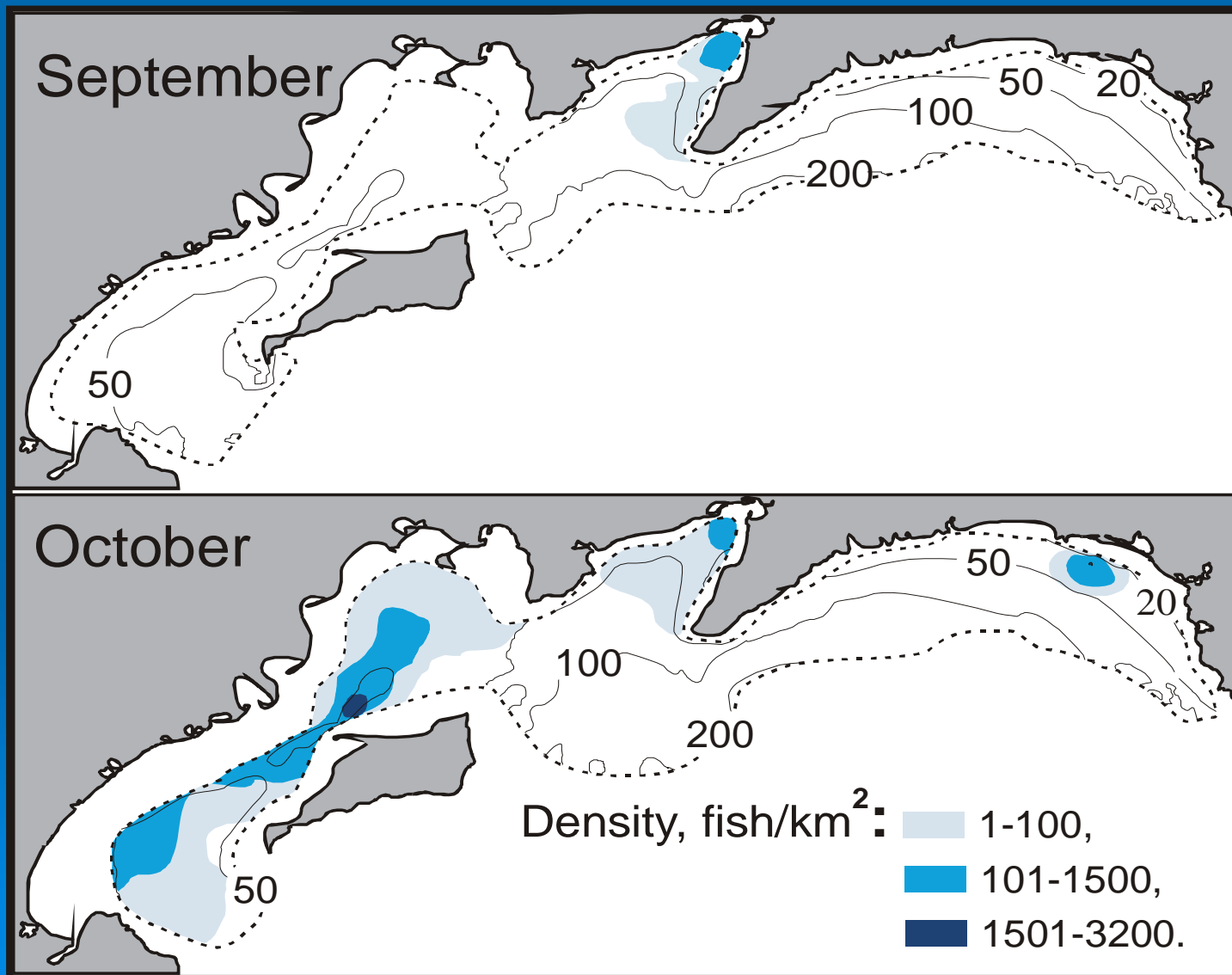


Average temperature of water (°C) in May–January in Karaginsky and Olutorsky Gulfs near the bottom and on the surface over the depth 15–50 m and in May–April at the hydrometeorological stations near the shore

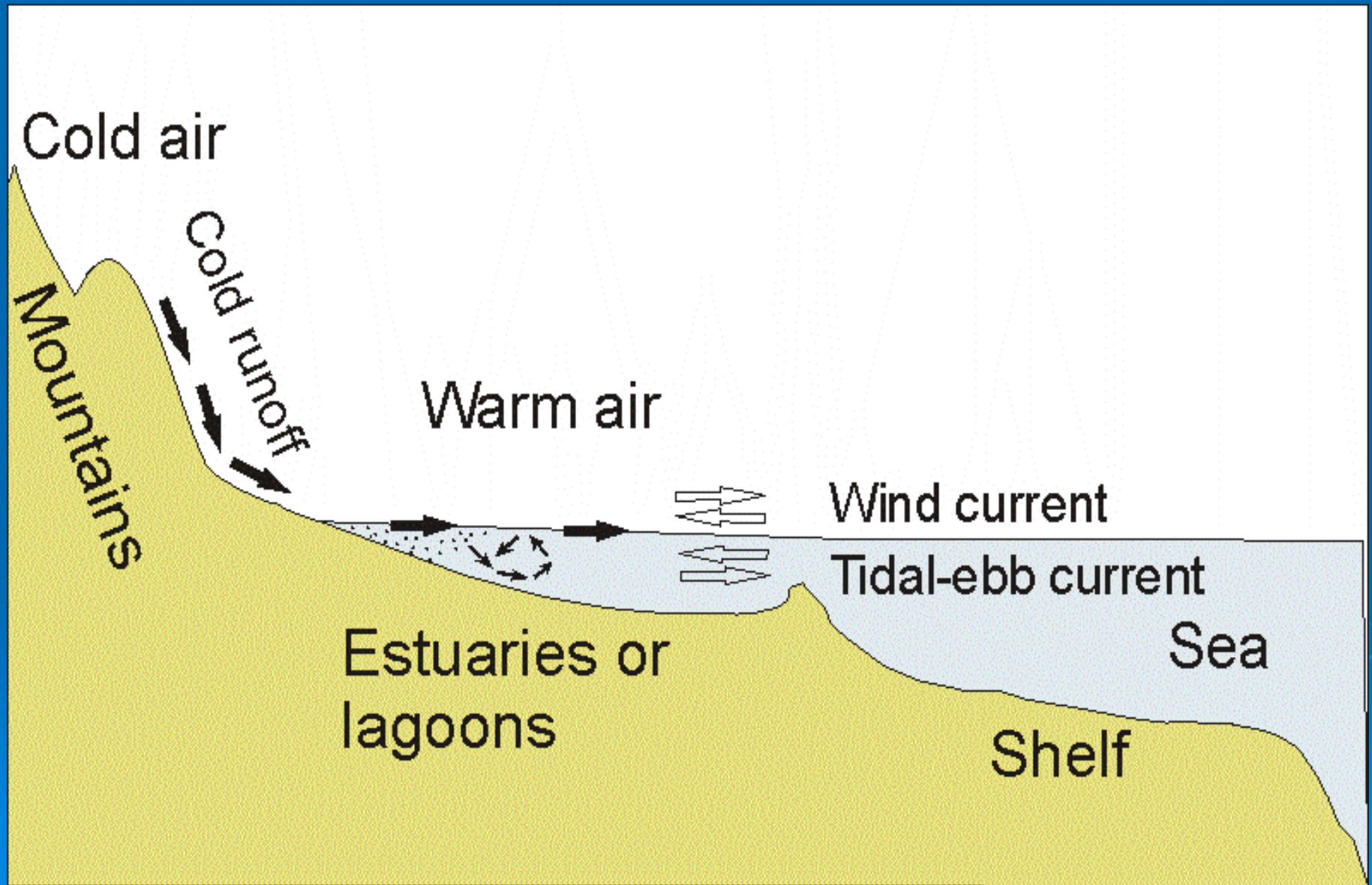


Scheme of the underyearling saffron cod distribution on the shelf in the gulfs Karaginsky, Korf's and Olutorsky in September and October.

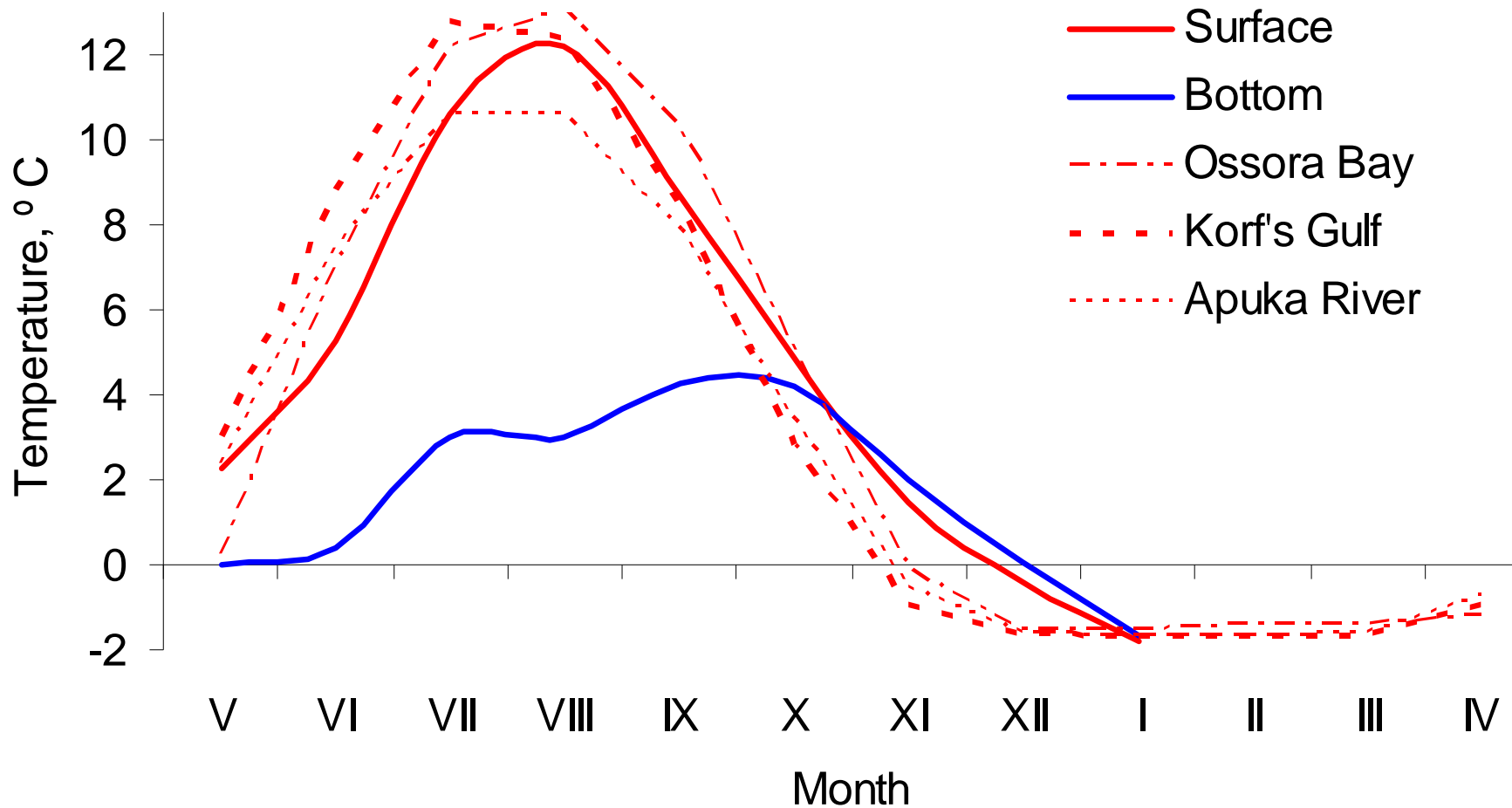
Dotted line – the boundary of the observation area



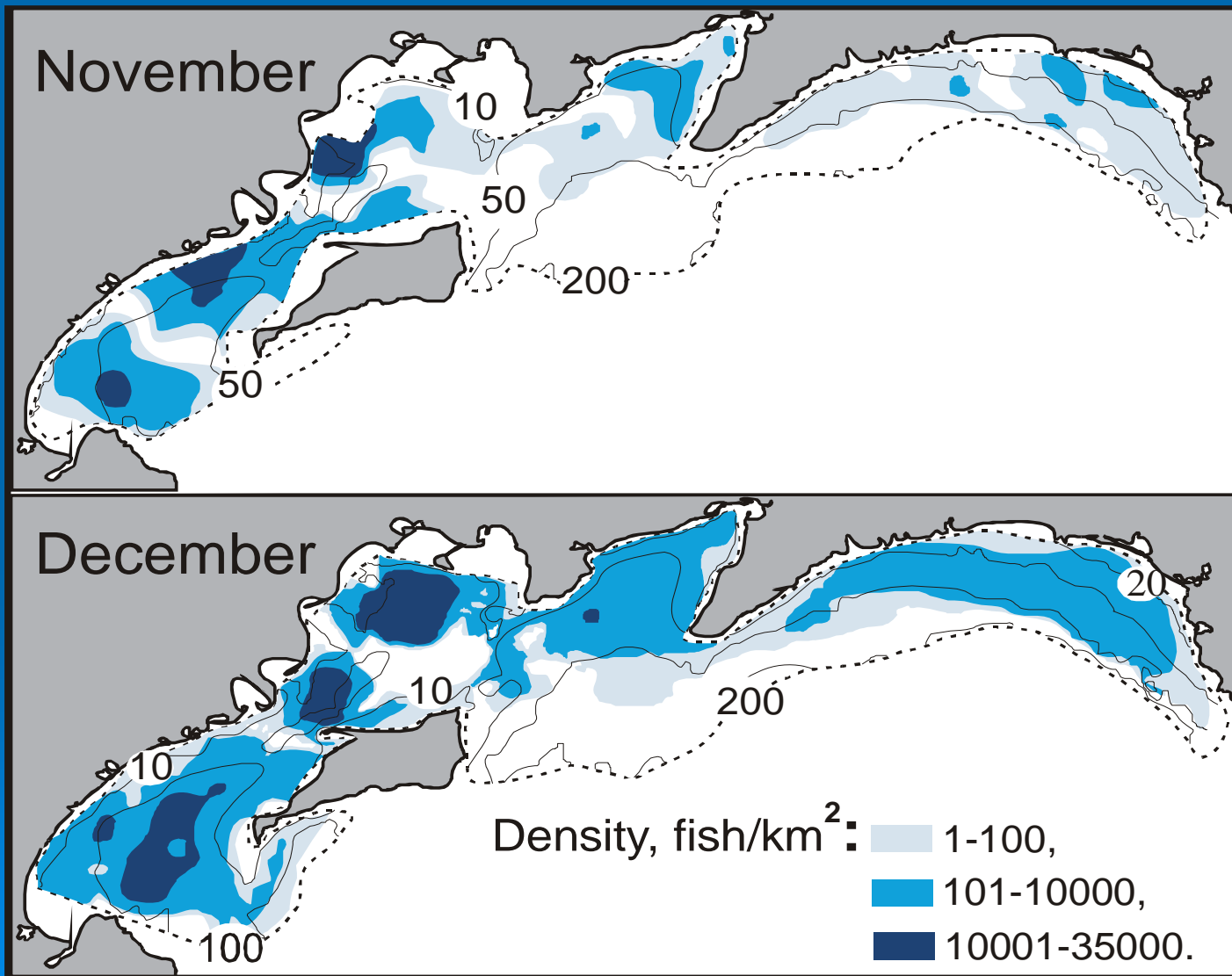
Coastal waters schematic cooling in late July and August



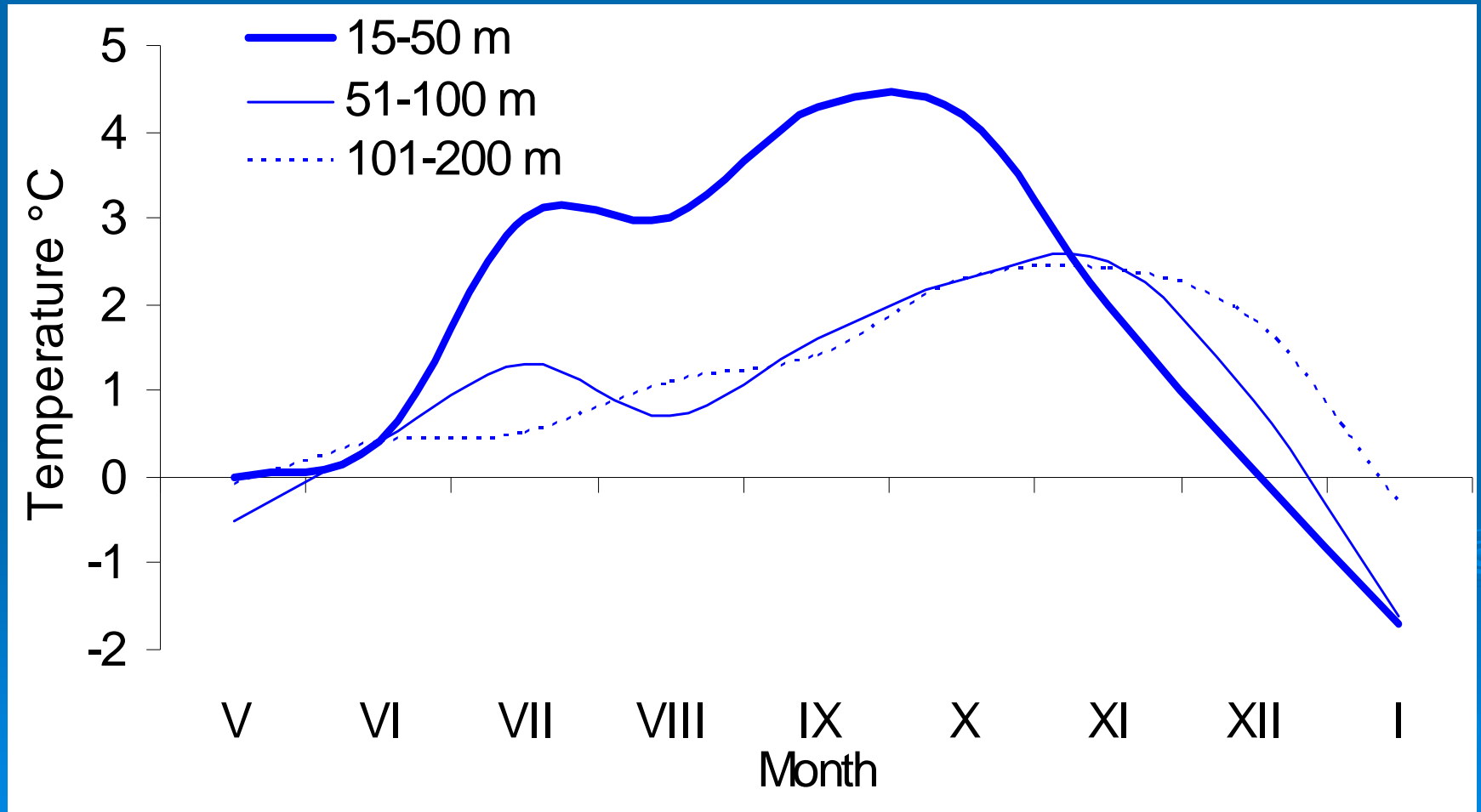
Average temperature of water ($^{\circ}\text{C}$) in May–January in Karaginsky and Olutorsky Gulfs near the bottom and on the surface over the depth 15–50 m and in May–April at the hydrometeorological stations near the shore



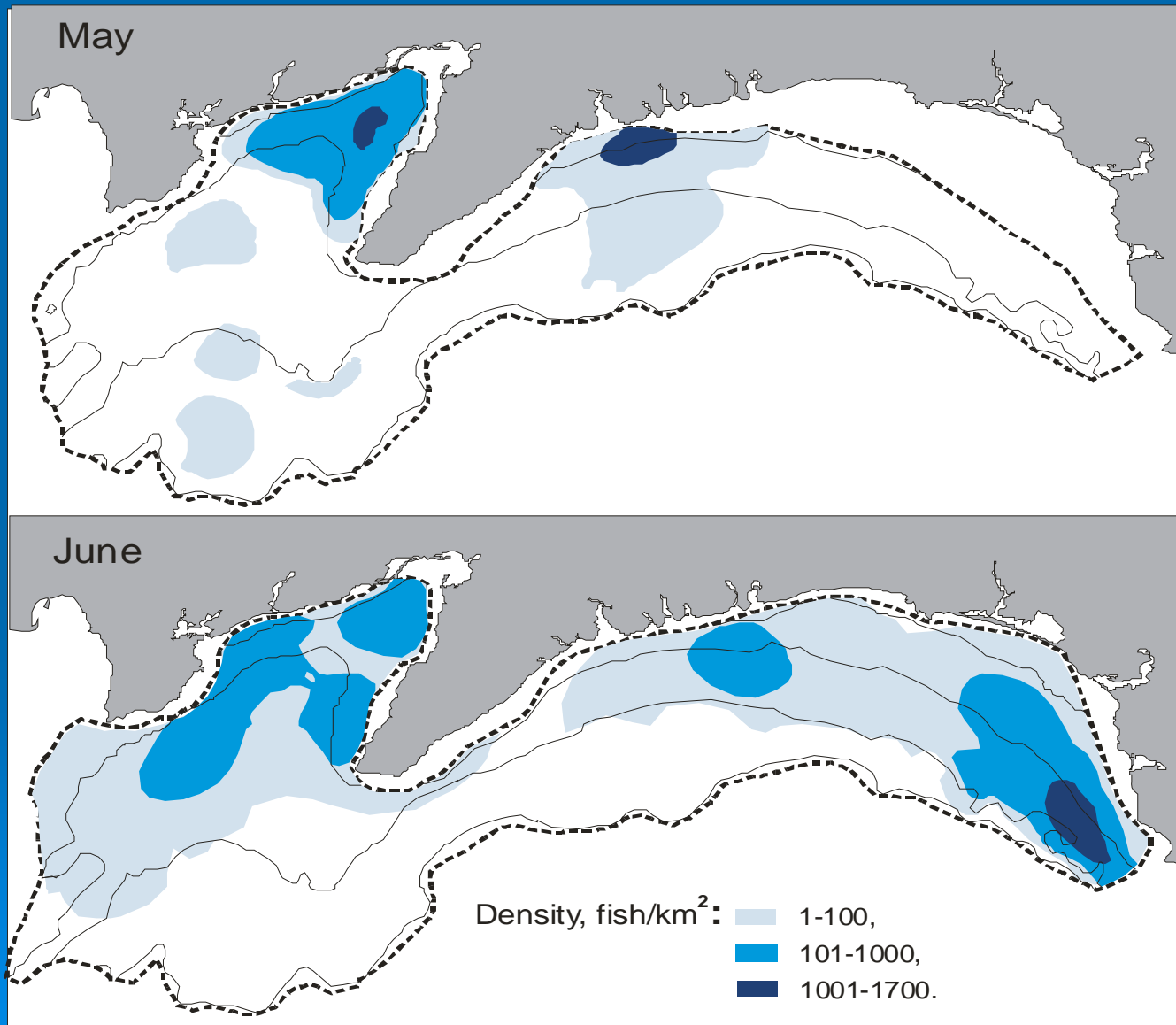
Scheme of the underyearling saffron cod distribution on the shelf in the gulfs Karaginsky, Korf's and Olutorsky in November and December.
Dotted line – the boundary of the observation area



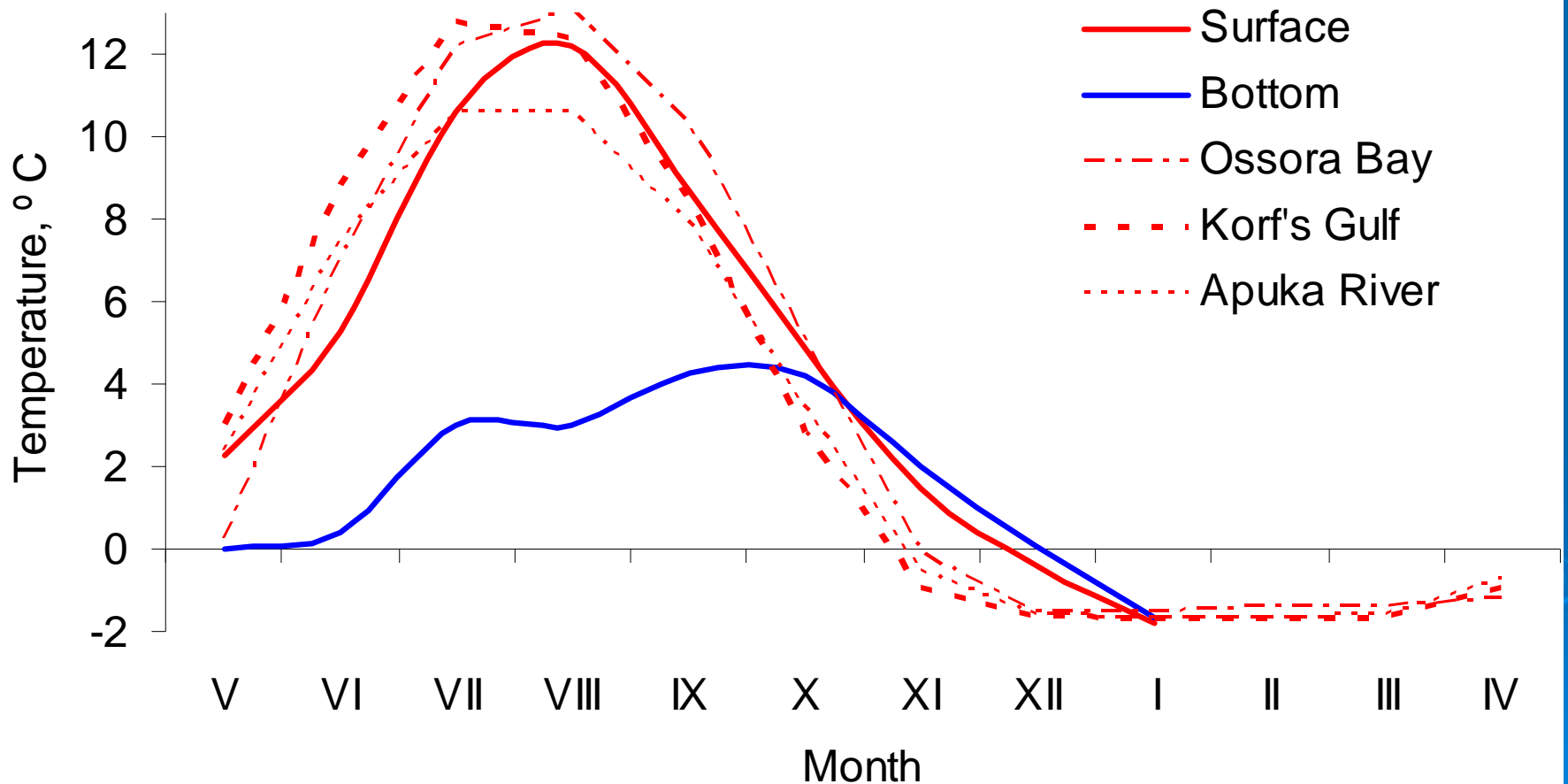
Average temperature of water ($^{\circ}$ C) near the bottom on the shelf in the gulfs Karaginsky, Korf's and Olutorsky in May–January in 1971–2006



Schemes of yearling (and more) saffron cod distribution on the shelf of Karaginsky and Olutorsky Gulfs in May and June



Average temperature of water (°C) in May–January in Karaginsky and Olutorsky Gulfs near the bottom and on the surface over the depth 15–50 m and in May–April at the hydrometeorological stations near the shore



Amateur fishermen in the Ossora bay.
February, 2009

