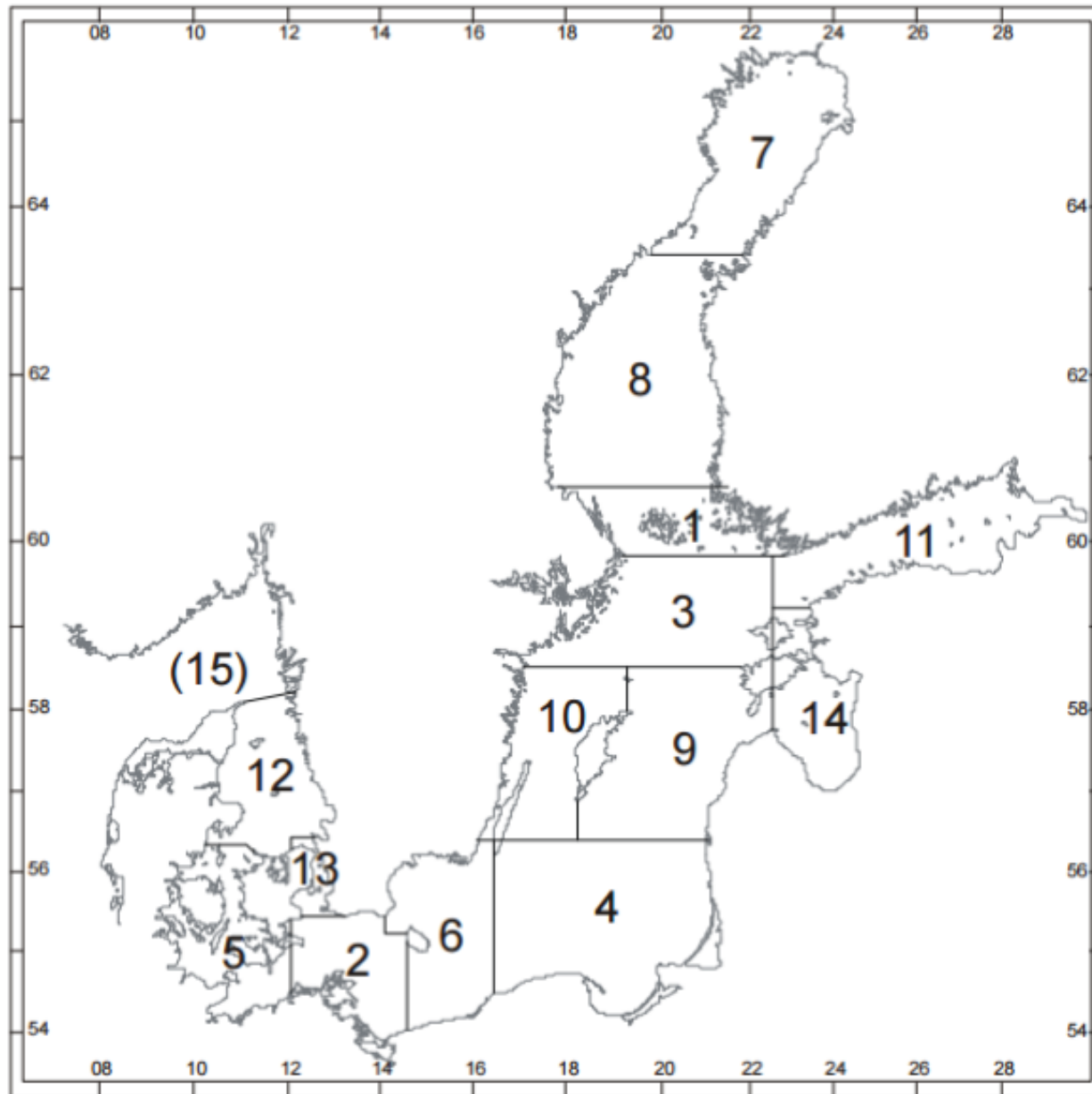


# MORS Environmental data 1984-2013

- Revision on the structure of the report:
  - Only figures, no figures on the map
  - Sr-90 only for herring, not for flatfish and cod (no analyses)
  - Omitted some figures with no new data
  - 2 figures/page to allow proper display of data values
  - <https://portal.helcom.fi/meetings/MORS%20EG%205-2015-208/MeetingDocuments/4-4%20Annual%20report%20of%20the%20MORS%20environmental%20data%201984-2013.pdf>



# MORS Environmental data 1984-2013

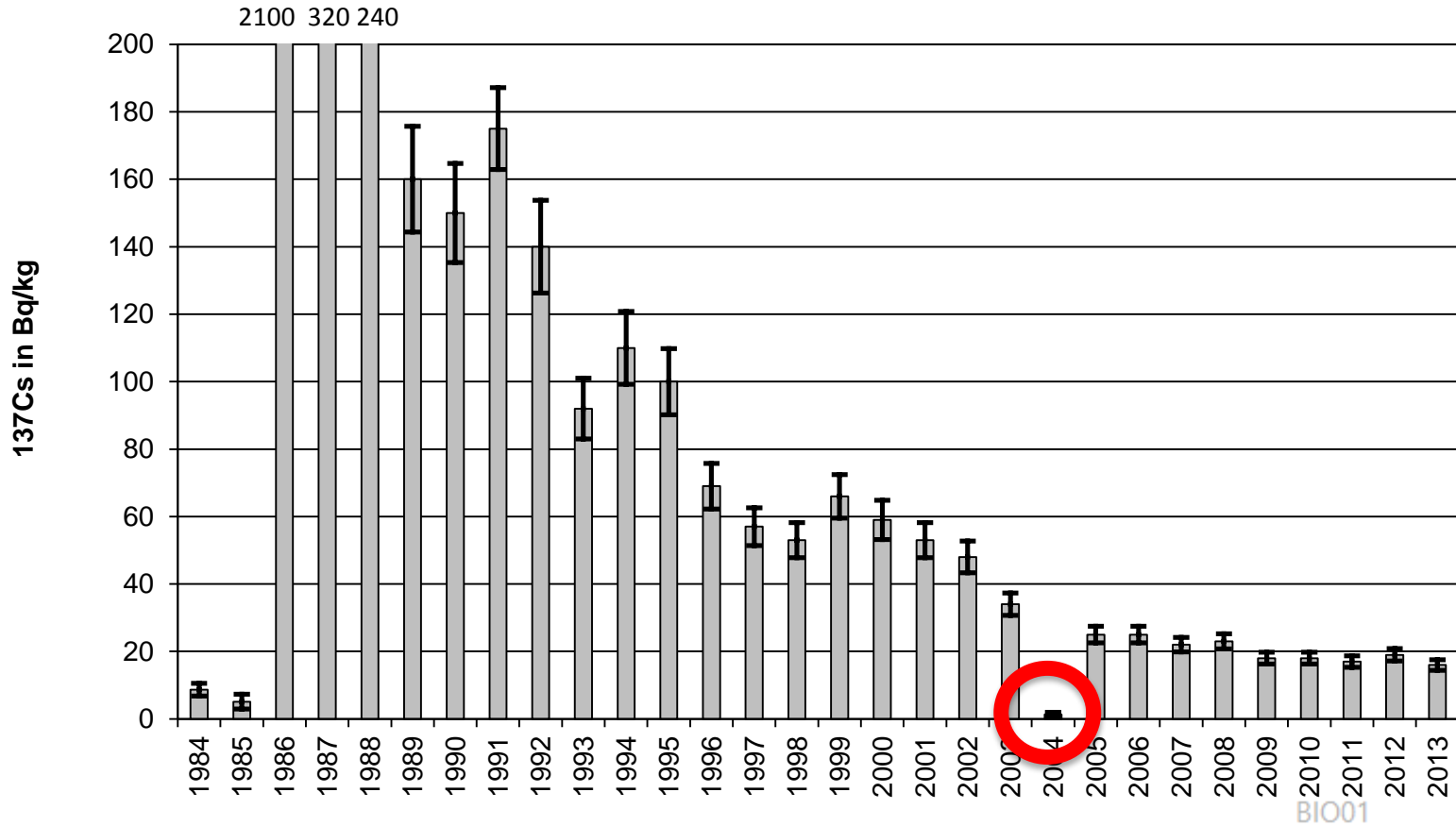


## Division of the Baltic Sea into Sub-basins

- |                           |                     |
|---------------------------|---------------------|
| 1. Archipelago Sea        | 8. Bothnian Sea     |
| 2. Arkona Sea             | 9. Gotland East     |
| 3. Northern Baltic Proper | 10. Gotland West    |
| 4. Southern Baltic Proper | 11. Gulf of Finland |
| 5. Belt Sea               | 12. Kattegat        |
| 6. Bornholm Sea           | 13. Sound           |
| 7. Bothnian Bay           | 14. Gulf of Riga    |
|                           | (15. Skagerrak)     |

# Biota: Fucus vesiculosus

ARCHIPELAGO AND ÅLAND SEA



BIO01

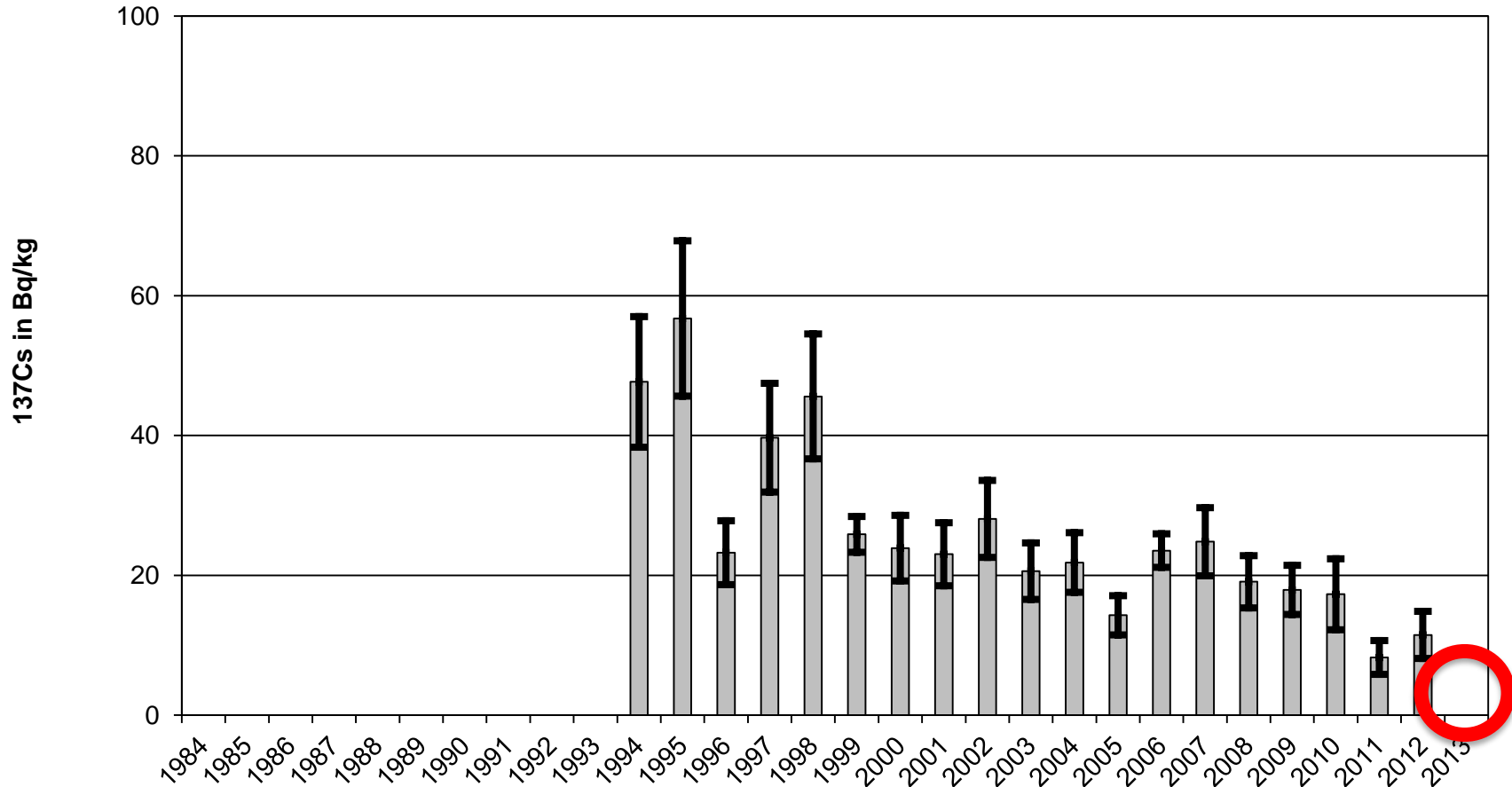
KEY	COUN	LAE	SEQUI	DATE	YE	MON	D/	STATIO	LATITUD	LATITUDI	LONGITUDE	LONGITU
BSSSI2004017	77	SSSI	2004017	10.9.2004	2004	9	10	SWF111	60,302	60,5033	18,22	18,366

BIO02

KEY	NUCLIDE	METHOD	< VALUE_Bq/kg	VALUE_Bq/kg	BAS	ERROR%	NUMBER
BSSSI2004017	GD153	SSSI42		1,3 D		26	6
BSSSI2004017	NB95	SSSI42		2,3 D		62	5
BSSSI2004017	CS137	SSSI42		1,3 D		26	4

# Biota: Fucus vesiculosus

## BORNHOLM SEA



BIO01

KEY	COUN	LAE	SEQUI	DATE	YEA	MON	D'	STATIO	LATITUD	LATTITUD	LONGITUDE	LONGITU	SDEP	RUBIN	BIOTA	TIS	NO	LENGT	WEI	DW%	LOI%	
BRISO2013005	26	RISO	2013005	14.6.2013	2013	6	14	Bornholm	55.05	55.0833	15.09	15.15		FUCU VES	P	51						
BRISO2012005	26	RISO	2012005	1.4.2012	2012	4	1	Bornholm	55.05	55.0833	15.09	15.15		0 FUCU VES	P	51		0		1		0
BRISO2011005	26	RISO	2011005	27.4.2011	2011	4	27	Bornholm	55.05	55.083333	15.09	15.15		0 FUCU VES	P	51		0		23		0
BRISO2010005	26	RISO	2010005	22.4.2010	2010	4	22	Bornholm	55.05	55.083333	15.09	15.15		0 FUCU VES	P	51		0		18,6		0

# Seawater

- Surface water:
  - Cs-137
  - Sr-90
  - Pu-239,240 not reported in 2013, only few observations from 2012 (STUK), under detection limit
- Bottom water:
  - Cs-137



# Seawater: Cs-137

- Surface water:
  - <LOD in Southern Baltic Proper (values 0.89 – 4.89 Bq/m<sup>3</sup>)
  - WLEPA003, 004, 008, 012, 014
  - Station LT10 in Curonian lagoon



# Seawater: Cs-137

- Bottom water:
  - High single observation in Kattegat
    - 87.21 Bq/m<sup>3</sup>
    - WRISO2013039 in Station Kattegat SW
    - Date: 1.12.2013
    - Sampling depth 32 m, Total depth 35 m
    - Salinity 29.47 (PSU)
    - No other radionuclides analyzed
    - Other bottom observation in 2013 in Kattegat SW:
      - WRISO2013018 (1.6.2013): 4.68 Bq/m<sup>3</sup>

