

NUCLEAR NEWS

from the Baltic Russia

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Hot Spots of the Baltic Russia

- Adopted plans to construct 2 units of LNPP-2 VVER-1200 (€ 4.8 billions)
- No decommission money (€ 2.4 billions) for Leningrad NPP (4 RBMK-1000 units)
- Promotion of nuclear electricity export (1 RBMK-1000 unit)
- ECOMET-S - concentrator of radioactive metal from Russia (600,000 tones).
- NPPs + Harbour = Industrial Aggression



LNPP-2

- 2 VVER-1200 (1200 MW) = € 4.8 billions.
- Cooling towers = steam generator of 100.000 t/day
- LNPP-2 most expensive energy solution for the Baltic Russia

Unsolved problems:

- No solutions for the long-term immobilization of SNF.
- No market competition of energy production



Decommission Process of LNPP

- **Lack of money** (up to € 2,4 billion) for the decommission process after its lifetime expires.
- **Absence of solutions** for the long-term isolation of spent nuclear fuel containing Pu²³⁹.
- **Absence of technologies** for reprocessing 6.800 t of radioactive Carbon C¹⁴. The half-life of C¹⁴ is 5.400 years.



Nuclear Electricity Export from LNPP

- ❖ Nuclear electricity export = promotion life time extension of Chernobyl type reactors of LNPP
- ❖ Nuclear electricity export = nuclear waste import to the Baltic Russia;
- ❖ Nuclear electricity export will demonstrate the inconsistency of EU safety policy. EBRD upgraded LNPP safety before design limit, but Rosenergoatom to continue the operation more 30 years.



ECOMET-S - concentrator of radioactive metal from Russia

- 800 m from Baltic Sea
- Capacity 10.000 t/year
- Cytogenetical damages
- Reprocessing potential
= 600,000 t



NPP Stimulate Dirty Technologies



Public Participation

- **Russia not ratified Espoo Convention**
- **EIA eliminated from Russian legislation in 2007**
- **Public Chamber nominated by President**
- **NGO**
- **GoNGO Governmental NGO**
- **BiNGO Business NGO**
- **MaNGO Mafia's NGO**



Baltic Nuclear Trend

Baltic Region 28 reactors

Sweden 12 - 2 = 10

Germany 6 - 6 = 0

Russia 4 + 6 = 10

Finland 4 + 1 = 5

Lithuania 2 - 1 = 1



Possible Solutions

- **Unification of EU and Russia nuclear safety & public participation standard.**
- **Promotion of decommission experience exchange of old NPPs;**
- **Promotion of renewable energy and energy saving strategy for EU and Russia;**
- **Stop transnational Nuclear and radioactive waste transportation;**



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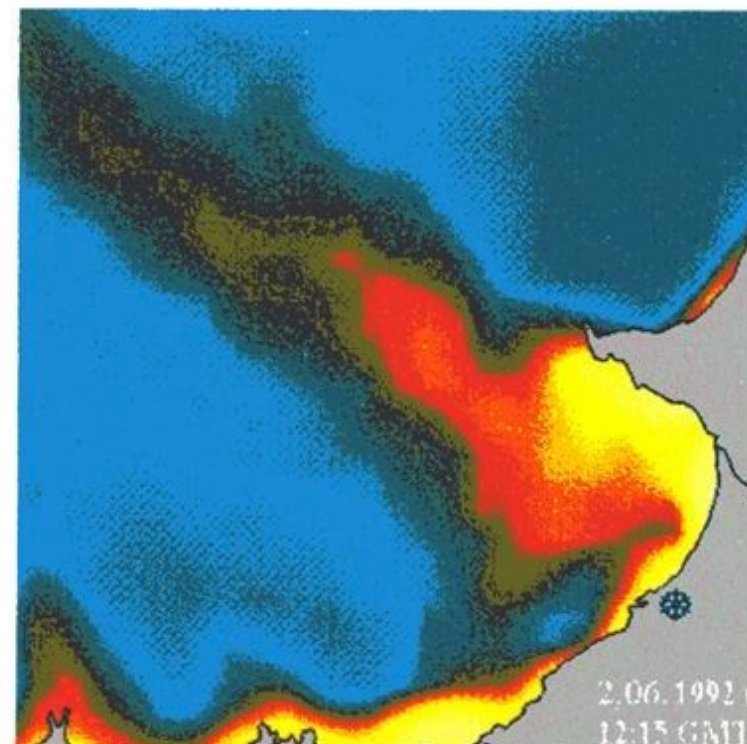
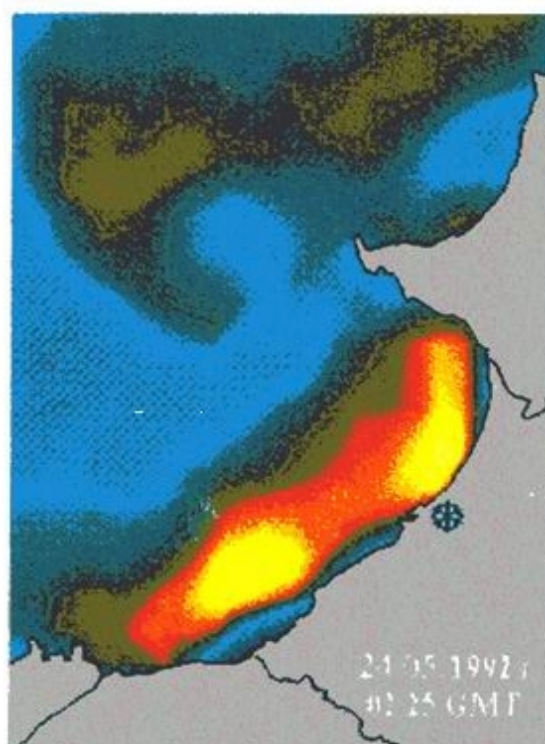
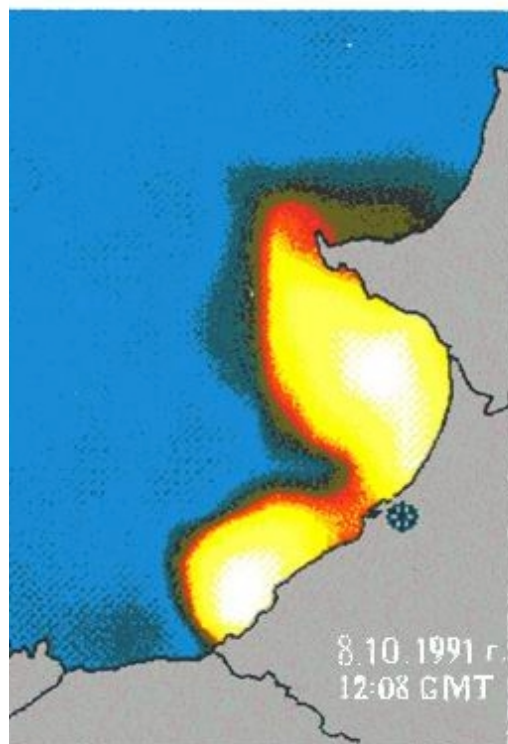
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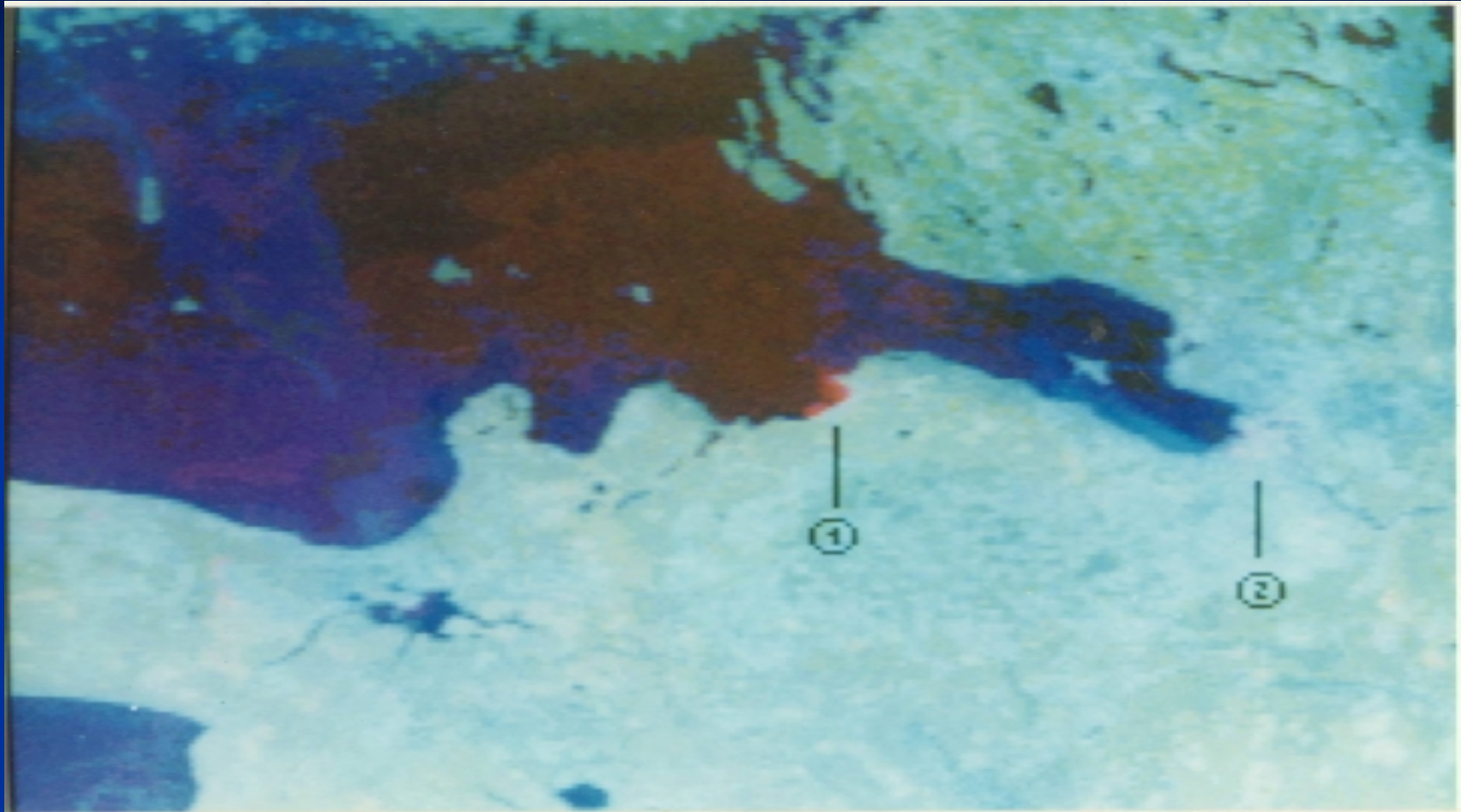
Тепловое загрязнение Ленинградской АЭС



**Резкое изменение теплового режима подрывает
воспроизводство рыбы**



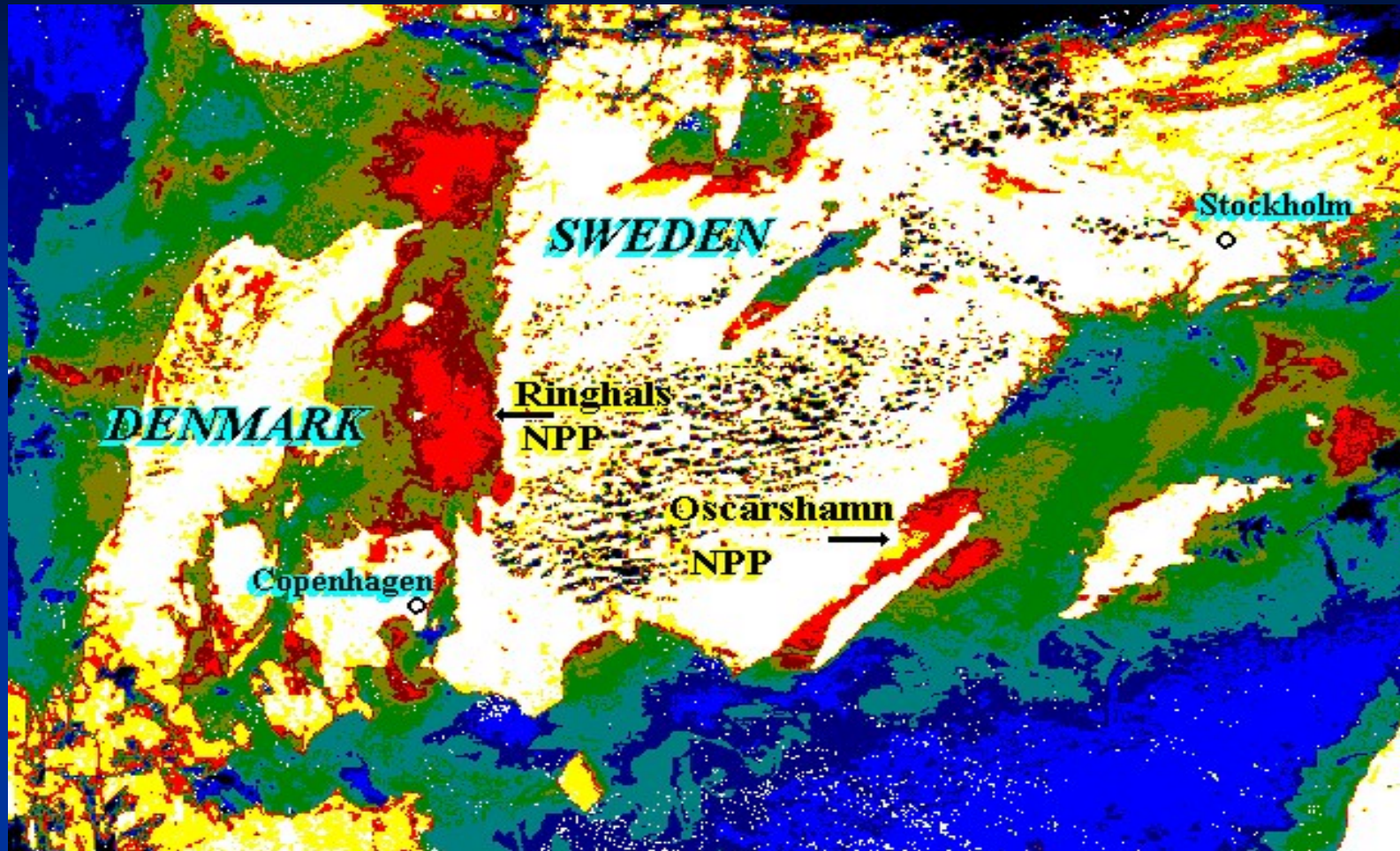
Thermo pollution of the Gulf of Finland



- Increasing of eutrofication
- Increasing of oil, heavy metal toxic effect
- LNPP kill more 100 millions fish /year



Swedish NPP thermo pollution



Barsebaek stopped thermo pollutions of the Baltic Sea



Nuclear Taj-Makhal

