

# Fleet characteristics and the VMS in Croatia

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## Fleet characteristics and the VMS in Croatia

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- E-logbook – state of play

## Fleet characteristics

### ▶ 2009/2010 data:

- 4029 vessels in total
- Average LoA: 10 to 11 m
- Average kW: 78.2 kW
- Average GT: 11.9 GT
- Vessels less than 12 m and 15 GT: 3552
- Vessels over 12 m and 15 GT: 477

## Main gears

### Main gears as per licensed activities in numbers:

- ▶ Gillnet nets
  - ▶ Trammel nets
  - ▶ Bottom trawls
  - ▶ Purse seines
  - ▶ Beach seines
  - ▶ Pots and traps
- ▶ Not all licensed are active; on the average  $\frac{1}{2}$  to  $\frac{2}{3}$  active (technical restrictions, effort management rules)

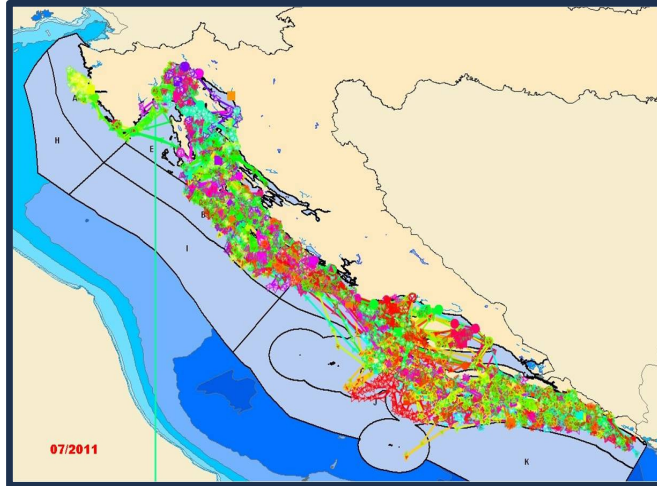
## Main species

- ▶ Total catch: 52.360 tons
- ▶ Purse seines: 46.261 tons
  - Sardines – 26.675 tons (total 26.749 all gears)
  - Anchovies – 13.711 tons (total 13.758 all gears)
  - Other small pelagic – 4.420 tons (total 4.451 all gears)
  - BFT – 369 tons
- ▶ Bottom trawlers – 3.707 tons
  - Hake – 572 tons (total 690 tons all gears)
  - Nephrops – 305 tons (total 328 tons all gears)
  - Cephalopods – 696 tons (total 904 tons all gears)
  - Mulletts – 774 tons (total 823 tons all gears)
- ▶ Coastal gears: 1.704 tons
  - Main species: sole, picarell, octopus, bogue, squid

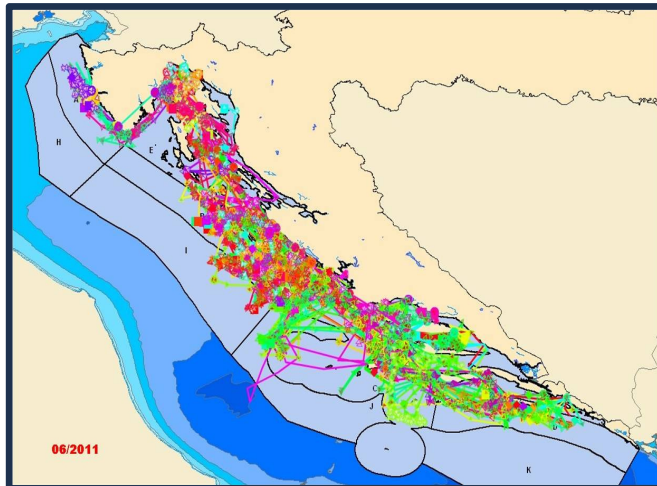
## Fleet operations

- ▶ Majority of the fleet operates within territorial waters only
- ▶ Majority of the operates within 24 hours at sea (exception: purse seiners, BFT purse seiners, larger bottom trawlers)
- ▶ Standard operational mode: leaving port evening (purse seiners)/moring (trawlers) – return to port morning/afternoon
- ▶ Indicative VMS snapshots in some months

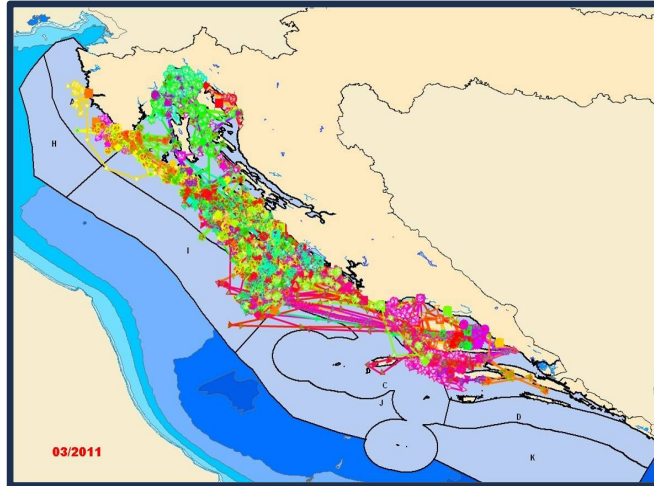
### Fleet operations



### Fleet operations



## Fleet operations



## VMS – state of play

- ▶ 2006 – beginning of instalation (BFT)
- ▶ Coverage of fleet increases – at present 2/3 of fleet over 15 m covered by the VMS
- ▶ Public tender in course for the remaining of the fleet (2012 expected finalization)
- ▶ GPRS/satellite mixture (polling every 15 min/2 hours)
- ▶ Most of the fleet below treshhold – cost/benefit?

### **E-logbook - state of play**

- ▶ 2010 beginning of installation (BFT purse seiners)
- ▶ Currently installation on vessels over 18 meters, going down to 15 meters
- ▶ Finalization expected in 2012
- ▶ Facilitation of communication (catch/landing)
- ▶ High costs of data transmission via satellite

### **Constrains**

- ▶ Number of vessels - equipment and communication costs, installation arrangements?
- ▶ Nature of fishing operations - satellite ineffective in terms of coverage
- ▶ Costs of satellite communications with larger data packages (logbook, BCD initiative)
- ▶ Electricity on board small vessels - not to be neglected!
- ▶ Legal framework - verification of VMS data?

**THANK YOU FOR YOUR  
ATTENTION**

