New Developments in MCS Technology

CoC Working group on VMS and related control systems in GFCM area

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Hybrid communication

- Combines global coverage with cheaper coastal telecommunication technologies
- Integral devices simplified installation and anti-tamper protection

Catch report transmission

- Expanding mandatory VMS device with additional control functionality
- Advanced systems record and transmit each fishing action and catch in real time: inspection checks compare reported with real situation at any time

Embedded geo-zones

- Protected fishing zones are difficult to control
- Conventional VMS systems enable short intrusions into protected areas
- New technologies instantly alert entrance into protected area

Subsidized fuel usage control

- Some governments subsidize part of fuel price to fishermen
- Control of intended usage was difficult
- New technologies enable precise control if this fuel is used for fishing

Net authentication

- Controls the usage of allowed nets and other tools
- Combines the net information with time and place of use
- Each tool is marked by fishery authority with unique robust authentication tag

Anti-tamper measures

- VMS device tampering typically includes disconnection of VMS transmitter from power, sending false position reports and other
- New anti-tampering measures provide detterance to tampering as well as evidence of tampering

Private distress button

- Expands mandatory VMS device with life-saving functionality
- Predefined messages, globally deliverable
- Plus Assistance messages: engine failure, medical condition, etc.



CONCLUSION

- VMS is not any more only position, speed and course
- New technologies enable precise and reliable information, supporting many other important aspects of fishery control
- Application of new technology greatly improves the results of MCS efforts

Thanks!

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