

Location and Track System for Andalusian Fishing Vessels (SLSEPA)

Sistema de Localización y Seguimiento de las Embarcaciones Pesqueras
Andaluzas



Junta de Andalucía

Consejería de Agricultura y Pesca

Dirección General de Pesca y Acuicultura

SLSEPA CURRENT SITUATION

Nº	"GREEN BOX"	Legislation
95	ARTESANAL FLEET (P. bogaraveo)	Resolución de 30 de diciembre de 2002, de la Dirección General de Pesca y Acuicultura, por la que se aprueba el plan de recuperación para el voraz (Pagellus bogaraveo) en el litoral andaluz y ordenación de la flota andaluza que opera con el arte de vorace
96	GOLFO CÁDIZ HIDRAHULIC DREDGE (DRAGA HIDRÁULICA)	Orden de 6 de octubre de 2005, por la que se regula la pesca de la chirla (Chamelea gallina), en el Golfo de Cádiz
121	GOLFO DE CÁDIZ ARTESANAL FLEET (Fish Reserve Guadalquivir River mouth)	Orden de 6 de julio de 2010, por la que se modifica la del 16 de junio de 2004, por la que se declara una Reserva de Pesca en la desembocadura del río Guadalquivir
317	GOLFO DE CÁDIZ ARTESANAL FLEET (REST)	
28	GOLFO CÁDIZ HYDRAHULIC DREDGE (REST)	
16	FISHERIES PATROL INSPECTION	
9	FISHING VEHICLE INSPECTION	
682	Total "GREEN BOX" INSTALLED	

Forecast New Installations "Green Box"

Nº	"GREEN BOXES"	Legislation
238	MEDITERRANEAN MECHANIZED DREDGES	Decreto 387/2010, de 19 de octubre, por el que se regula el marisqueo en el litoral de la Comunidad Autónoma de Andalucía y Proyecto de Orden del plan de gestión para dragas mecanizadas enviado a la COMISION EUROPEA
238	Total "Green Boxes" INSTALL IN 2012	

Total number of vessels located at the end of 2012: **682+238= 920**

Future Facilities from 2013

Nº	"GREEN BOXES"	Legislation
181	MEDITERRANEAN ARTESANAL FLEET	Proyecto de Decreto de ordenación de jornadas y horarios de las actividades de marisqueo y pesca profesional y regulación del Sistema de Localización y Seguimiento de Embarcaciones Pesqueras Andaluzas
161	PURSE SEINER	
280	TRAWLER	
622	TOTAL "GREEN BOXES" NEW FACILITIES	

At the end of 2014, the Track & Trace System of Fishing Vessels Andalusian (SLSEPA) will have a total of 1532 boats.

Inicial Investment

Cost	Object
85.886,40 €	Build and Develop Control Centre and Reception Centre

Cost per vessel

Cost	Object
1.400,00 €	GREEN BOX (unit)
1.200,00 €	GREEN BOX (maintenance unit / year) *

* Monthly cost of communications by boat 5-6 €

PROJECT ALBORÁN

Agriculture and Fishery Department in Andalusia is one of the partners of this european project called Alborán (Outside boundarys).

Our budget is 183.000 euros and we have to invest it instaling around ten green box. Morocco is participating in this project and maybe provide some vessels as a new experience.

I´ll give you a detailed report of it (by email to our chairman).

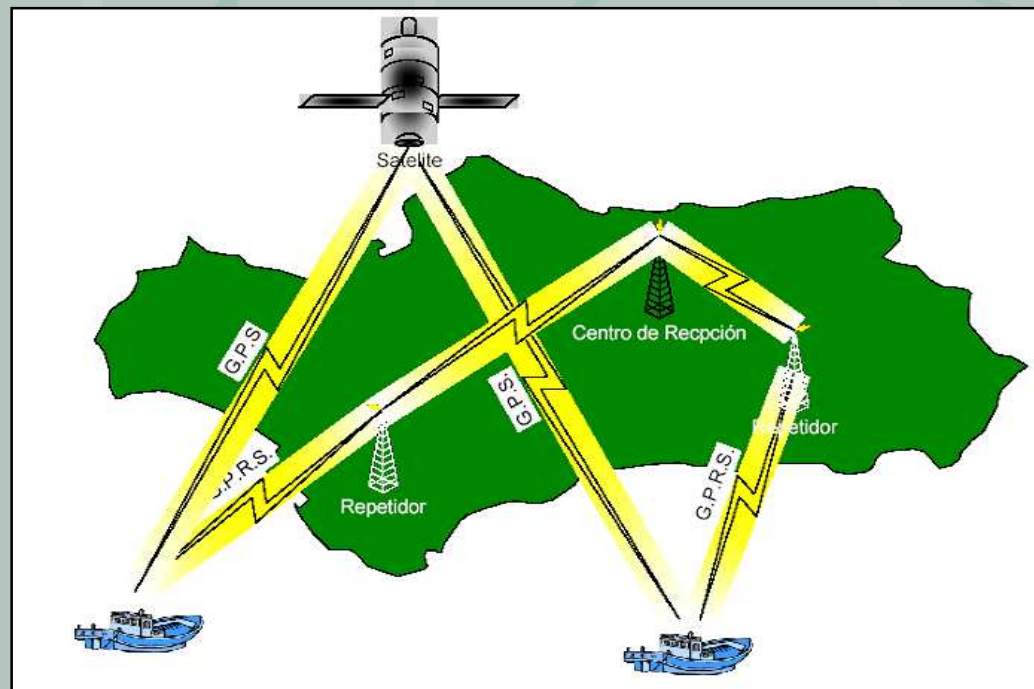
Implementation of Location and Track System for Andalusian Fishing Vessels (SLSEPA) in monitoring the fishery

System that allows Andalusian fleet Tracking:

- At real time.
- At Post-processed data

The SLSEPA has two main features:

- Low cost transmission of location data
- High frequency of submission (every three minutes)



SLSEPA PURPOSE

The Location and Track System for Andalusian Fishing Vessels (SLSEPA) is created in order to achieve three basic objectives

- Evaluation and monitoring of the Fishery Resources:
 - o Sustainable Exploitation
- Monitoring compliance with legal provisions
- Safety of life at sea.

SLSEPA applicability for the Management of Fishery Resources

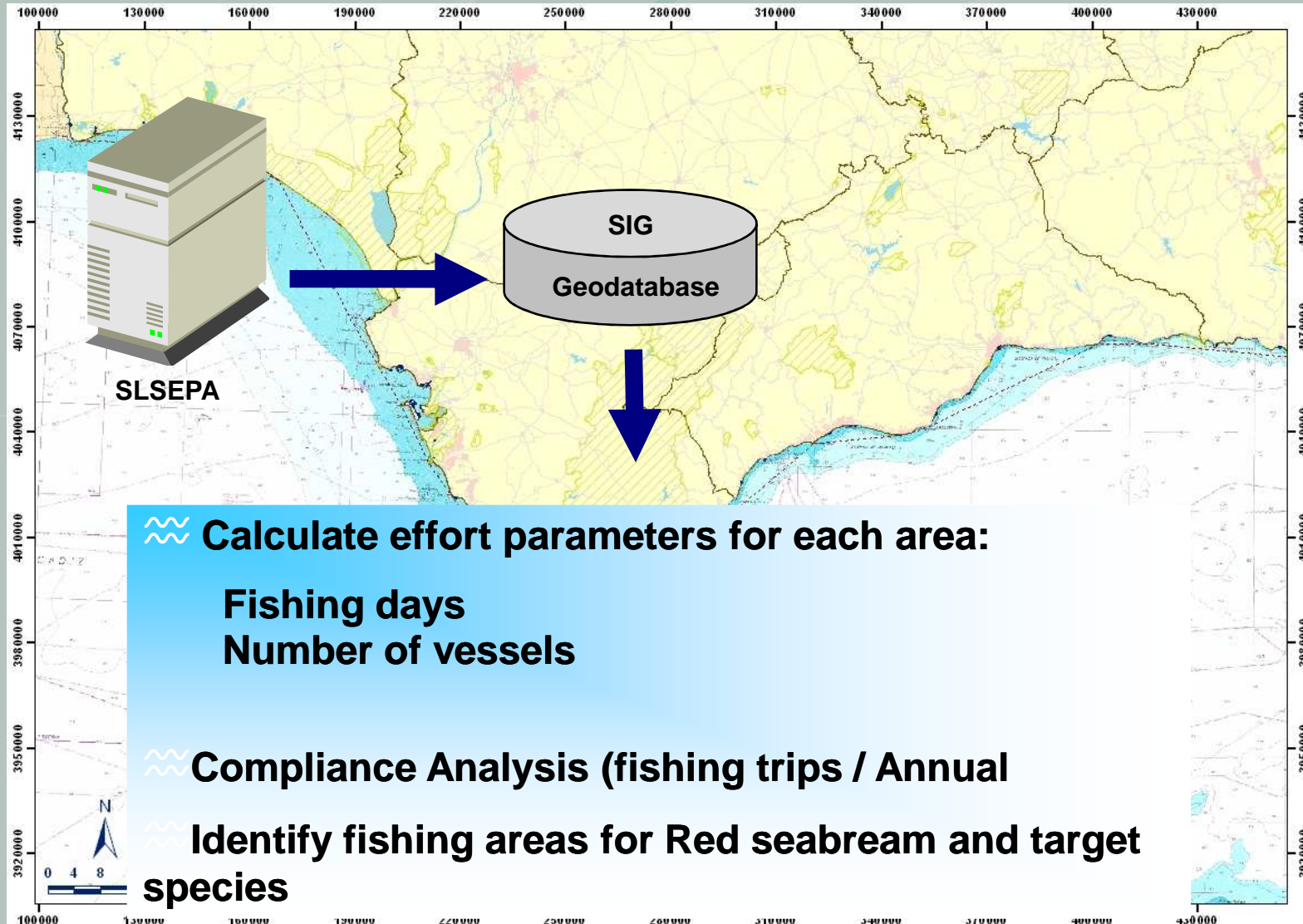
GENERAL PURPOSE:

- Knowing the current status of the fishery associated with red seabream fleet in the Strait of Gibraltar, from the analysis of fishing effort and its relation to fish production landed (catches)

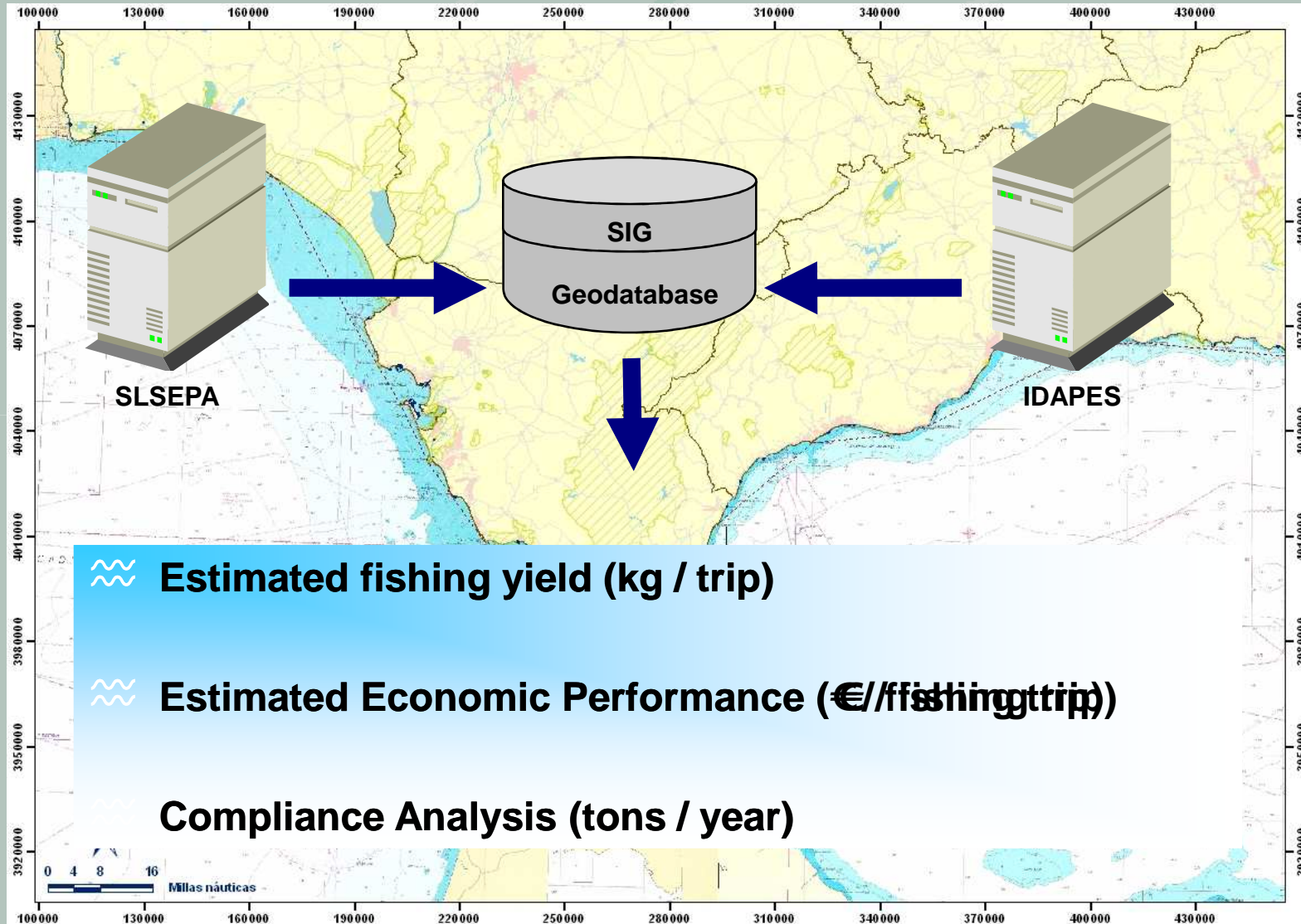
SPECIFICS PURPOSES:

- Location and demarcation of the main fishing areas
- Assessment of fish and economic production for target species and main accessory species.
- Estimated effort expended by the fleet in each fishing area and its temporal evolution.
- Estimation of fishing and economic performance in each fishing area for the red seabream and main accessory species and their evolution over time.
- Estimating the degree of compliance with current regulations by the fleet associated with this fishery

Methodology of the post-process data SLSEPA



Methodology of data crossing SLSEPA with IDAPES



Fisheries Resource Assessment of the fleet operated by “voracera”

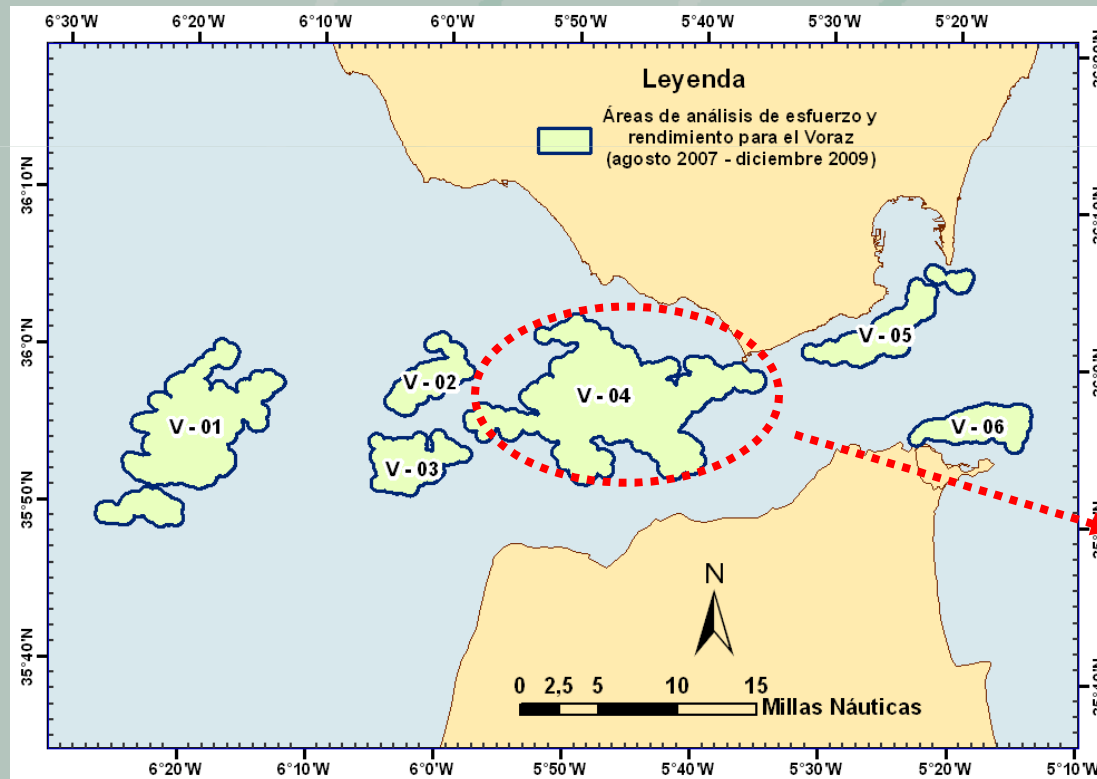
BACKGROUND:

- In early July 2006 the 103 vessels fleet included in the census were controlled by the Location and Track System for Andalusian Fishing Vessels (SLSEPA) of the Department of Agriculture and Fisheries.
- In 2010 the 95 Andalusian fishing vessels fishing exclusively for Red Seabream have installed the device ERE, 61 of them have home port in Tarifa, 23 in Algeciras and the remaining 13, in Conil and Barbate.

There are also other boats with home port in Ceuta (8 in 2011), included in the census of authorized vessels fishing for Red Seabream in the Strait of Gibraltar, which has no control procedure.

RESULTS: Delimitation of Fishing Areas

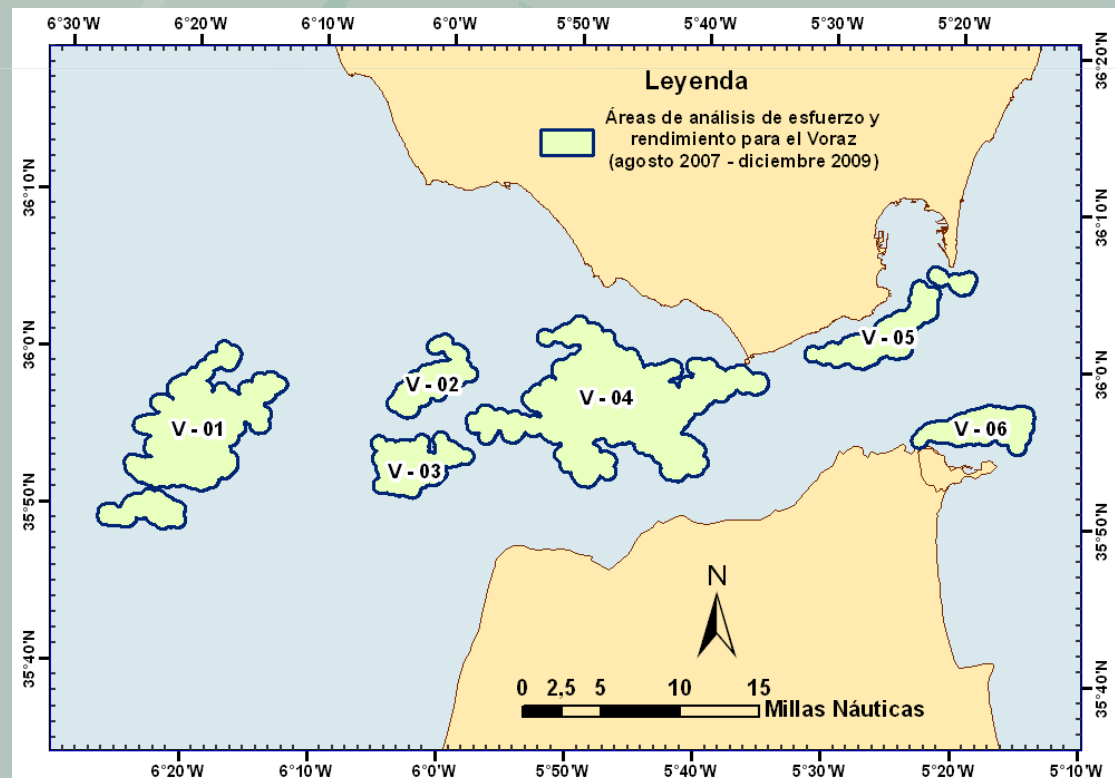
From the analysis of positioning of the ships whose speed are in the range of fishing activity (speed between 0.5 and 3 knots, hold for 9 min) from August 2007 to December 2009 six fishing areas have been obtained for redseabream and / or incidental species.



50,75 % of the delimited fishing areas

GENERAL CONCLUSIONS

- From SLSEPA objectively have been identified six fishing areas the Strait of Gibraltar.
- The area with greater surface, fishing effort and fish production has been V-04.
- It has detected a clear segregation of fishing area bounded by the fleet of each port.
- Both the fish yield (kg/fishing trip) and economic (€ / fishing trip) is larger in area V-06.
- The performance shows a clear seasonality, being higher at summer months and at the end of the year
- For 2008, in 2009 the fishing effort was greater in all fishing areas.
- Catches have increased in 2009, but economic performance has been negatively affected in 2009, particularly in major areas where Red Sea bream is captured (V-06).



We are expecting a new fishing plan (Central Authority) that can solve important handicaps like:

- **Different gears and customs.**
- **Sizes.**
- **Efforts. Maximun number of days/week and days/year.**
- **Closed season.**
- **Use of location-tracking device on board.**
- **Quotas.**



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