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*Title*                   **PROPOSAL FOR ADOPTING NEW LONGLINE SYSTEM IN THE  
EXPLORATORY FISHERIES FOR *DISSOSTICHUS SPP.* IN  
2005/06**

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#### ABSTRACT

This document indicates our intention to get admission for adopting new longline system instead of Spanish longline system to exploratory longline fisheries for *Dissostichus spp.* in Subarea 48.6 in 2005/06 season, showing difference between two systems by two figures, and explaining the reason why we want to adopt new system with results of bottle test.

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#### SUMMARY OF FINDINGS AS RELATED TO NOMINATED AGENDA ITEMS

##### *Agenda Item Findings*

5.5.1           Line sink rate in the new longline system is so fast (faster than in Spanish system) that this system is quite effective to minimize the incidental mortality of seabirds.

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PROPOSAL FOR ADOPTING NEW LONGLINE SYSTEM  
IN THE EXPLORATORY FISHERIES FOR *DISSOSTICHUS SPP.*  
IN 2005/06 SEASON

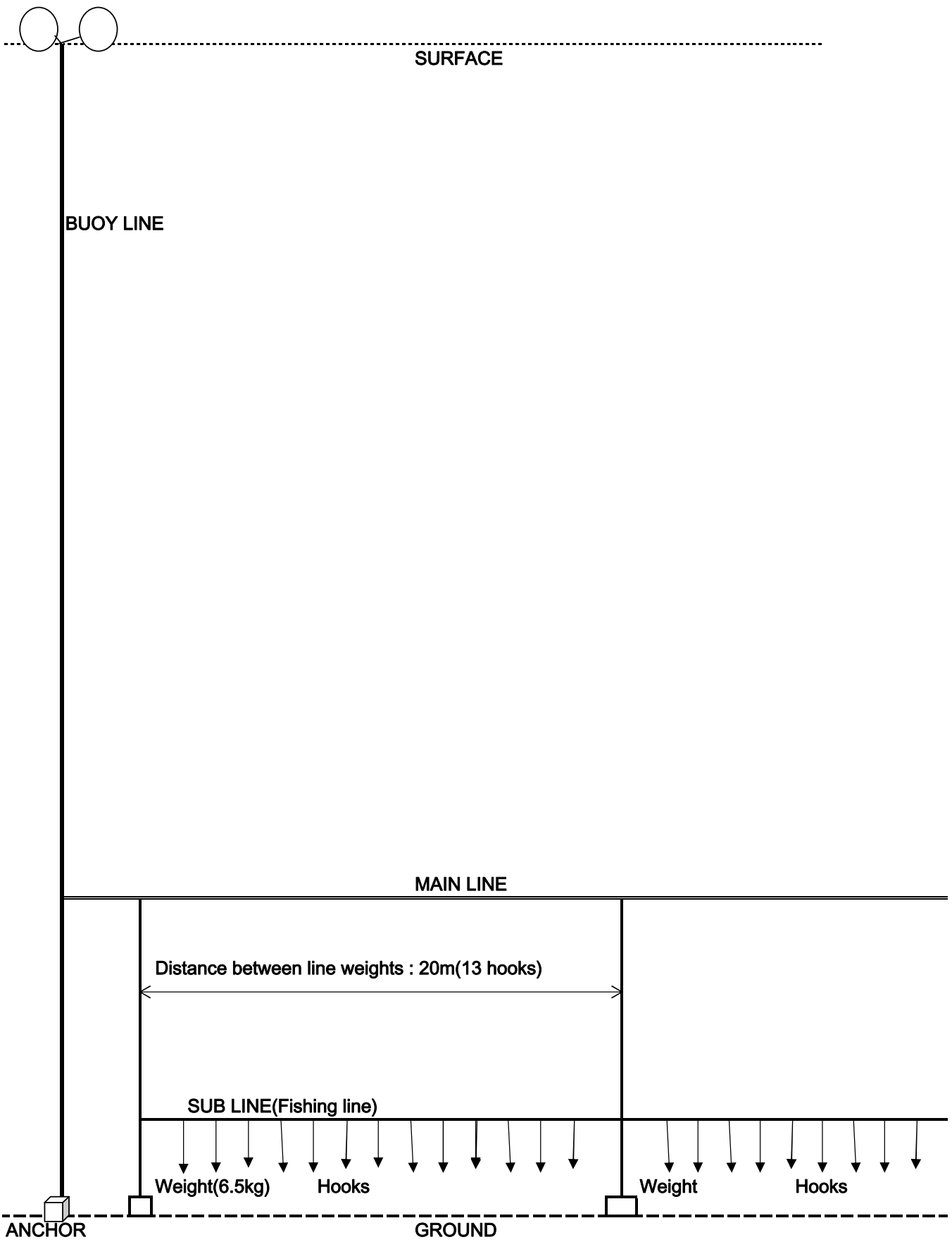
We submitted notification for exploratory longline fisheries for *Dissostichus spp.* in Subarea 48.6 in 2005/06 season. In this exploratory longline fisheries we would like to ask CCAMLR to admit for adopting new “Shinsei Maru bottom line system” instead of “Spanish longline system”. As we hereunder explain such details as arrangement of two systems, the reason why we want to adopt Shinsei Maru system, and results of bottle test of Shinsei Maru system, we would appreciate it if CCAMLR considers our proposal and gives the admission for us to adopt this new Shinsei Maru system.

1. Arrangement of “Spanish longline system” and “Shinsei Maru bottom line system”
  - a) In “Spanish longline system” as shown in Figure 1, sub line is connected to main line, and `branch lines – hooks` and `branch lines – weights` are set to sub line parallel with the ground.
  - b) In “Shinsei Maru bottom line system” as shown in Figure 2, sub line is not used, and each `branch line -- buoy-- group of hooks(around 20 pieces) -- weight` is set to main line directly and vertically. Line sink rate in this system is faster than in “Spanish longline system” as the weight is connected with main line directly and vertically.
  
2. The reason why we want to adopt “Shinsei Maru bottom line system”
  - a) Since line sink rate is faster as mentioned above, this system is more effective to minimize the incidental mortality of seabirds.
  - b) As amount of hooks and quantity of bait are decreased, operation cost of exploratory longline fisheries can be cut down.
  
3. Result of bottle test in “Shinsei Maru bottom line system”

The time taken for the line to sink from the surface (0m) to 10m in each bottle test was 8.9 seconds, 9.1 seconds, 9.5 seconds, and 9.2 seconds respectively, and each case showed that line sank at faster rate than 1.0m/s, completely exceeding a minimum sink rate of 0.3m/s provided in Conservation Measure in force.

If “Shinsei Maru bottom line system” is approved to be used, a study about variation of CPUE might be necessary.

FIGURE 1. SPANISH LINE SYSTEM



**FIGURE 2. SHINSEI MARU BOTTOM LINE SYSTEM**

