Tracey Steel Ministry of Fisheries P O Box 1020 WELLINGTON



15 April 2010

# Submission: Initial Position Paper on management controls to support the introduction of attached Bladder Kelp Seaweed, *Macrocystis pyrifera*, in Fisheries Management Areas 3 and 4 into the quota management system.

Forest & Bird appreciates the opportunity to comment on the initial position paper developed by the Ministry of Fisheries (MFish).

## Forest & Bird

Forest & Bird (Royal Forest & Bird Protection Society of New Zealand Inc) is New Zealand's largest independent conservation organisation. Established in 1923 we have campaigned for over 80 years for the protection of New Zealand's native species and the habitats on which they depend.

We have grown to number around 68,000 members and supporters - many of whom join us to save their local species and habitats. Our members are people who care passionately about New Zealand's unique and special natural environment and native species, and want to make sure that these natural treasures are protected so that they can continue to be enjoyed by future generations.

The constitutional purpose of Forest & Bird is to:

"To take all reasonable steps within the power of the Society for the preservation and protection of the indigenous flora and fauna and natural features of New Zealand, for the benefit of the public including future generations."

Forest & Bird has a long history of advocacy for the protection of New Zealand's marine environment and has been at the forefront of efforts to protect New Zealand's marine biodiversity.

## Submission summary

- Bladder kelp or giant kelp (*Macrocystis pyrifera*) is an important component of coastal ecosystems.
- Research into the impacts associated with commercial harvesting of bladder kelp is very limited and woefully inadequate to justify the proposed harvesting levels.
- As such the Minister is required to make a cautious decision under Section 9 of the Fisheries Act.
- The TACC for fisheries management areas 3 and 4 should be set at zero until a time that comprehensive and independent risk assessments have been completed.

Royal Forest and Bird Protection Society of New Zealand Inc., Central Office, Level One, 90 Ghuznee St., PO Box 631, Wellington. Tel: 04 385 7374, Fax: 04 385 7373 <u>www.forestandbird.org.nz</u>

## The values of *Macrocystis pyrifera*

Bladder kelp or giant kelp (*Macrocystis pyrifera*) is a particularly important component of our coastal marine ecosystems. It provides the following ecological values:

- Provision of food for a large range of marine animals, which supports a variety of coastal foodwebs and fisheries;
- Critical habitat for a number of species, including economically valuable species such as paua, rock lobster (crayfish) and finfish;
- Acts as keystone species;
- Provides nursery habitats for finfish and invertebrates;
- Slows currents allowing larval settlement;
- Reduces coastal erosion by minimising wave sizes;
- Reduces pollution (e.g. nutrient run-off from land based sources).

Because of and in addition to these features, *Macrocystis* also provides enormous economic, social and cultural values.

### Support for management under the quota management system (QMS)

As noted in our submission on the IPP to introduce *Macrocystis pyrifera* onto the QMS (dated 16 September 2009) open-access could lead to rapid depletion of this important marine species. It would also enhance the onset of a broad range of adverse coastal ecosystem responses.

### Risks associated with harvesting Macrocystis pyrifera

There is a long list of risks associated with the harvesting of this important coastal species. These include:

- Lack of scientific data to assess whether harvesting in New Zealand could be sustainable;
- Removal of *Macrocystis* will probably affect coastal ecosystems and fisheries that rely on kelp productivity;
- The diverse array of invertebrate and fish communities that live on and around *Macrocystis* will be significantly adversely affected;
- Removal of the kelp canopy may affect larval settlement of species such as rock lobster and paua;
- Kelp beds in New Zealand are relatively small and some kelp forest ecosystems thought to be in decline. Harvesting is likely to exacerbate the loss of this key habitat type;
- Harvesting is highly likely to intensify the impacts of invasive kelp *Undaria* on native kelp populations;
- Potential reduction of the productivity of high value fisheries;
- Coastal erosion may increase.

Kelp beds in New Zealand are relatively small and are unlikely to be capable of sustaining the levels of harvesting required to make it an economically viable industry. Harvesting of kelp in coastal Tasmania in the 1960's and 1970's failed due to lack of available kelp. Subsequently there has been a 70% decline in the extent of the kelp forests in Southeast Australia and Tasmania and there are plans to make *Macrocystis* kelp forests an endangered habitat type.

#### Poor justification for management proposals

Any increase in the TAC for *Macrocystis* must be based on:

- Completion of a comprehensive and independent Environmental Risk Assessment that has gone through MFish's peer review processes, e.g. the Aquatic Environment Working Group;
- Completion of a comprehensive and independent socio-economic risk assessment, including a cost-benefit analysis on the economic value of any commercial harvesting relative to associated societal costs;
- A management plan that minimises adverse effects of kelp harvesting on *Macrocystis* and it's associated values;
- Identification and protection of kelp forests of rare, distinctive or outstanding value.

None of these important questions have been addressed in the IPP, making justification for the management proposals woefully inadequate.

### **Conflict with Ministry for the Environment guidelines**

The proposal to harvest *Macrocystis* is counter to advice being provided by the Ministry for the Environment (MFE) in its publication "Preparing for coastal change" (March 2009). This report is based on an extensive NIWA report. The MFE publication notes as one of four key principles for managing coastal hazards:

"Importance of natural coastal margins. The dual role of natural coastal margins as the fundamental form of coastal defence and as an environmental, social and cultural resource must be recognised in the decision making process. Consequently, natural coastal margins should be secured and protected."

Margins would include rocky coast and kelp beds.

#### Recommendations

Due to the enormous paucity of information around the harvesting of bladder kelp, requirements under Section 10 of the fisheries Act come into effect. As such a cautious decision should be taken.

Forest & Bird consider that any TACC greater than zero cannot be justified until further work is completed by the Ministry. As such, we recommend a TACC of zero be set for both fisheries management areas 3 and 4.

Should you have any queries in relation to this submission, please do not hesitate to contact me.

Yours sincerely,

Kirstie Knowles Marine Conservation Advocate Forest & Bird

Royal Forest and Bird Protection Society of New Zealand Inc., Central Office, Level One, 90 Ghuznee St., PO Box 631, Wellington. Tel: 04 385 7374, Fax: 04 385 7373 <u>www.forestandbird.org.nz</u>