Problem Chosen	2022 MCM/ICM Summary Sheet	Team Control Number
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Summary

Keywords:

Contents

1 Introduction

1.1 Problem Restatement

In order to cope with the tremendous threat imposed by climate change, human-beings should spare no effort to reduce the amount of greenhouse gases in the atmosphere by not only cutting down the emission of the greenhouse gases, but also sequestering carbon from the atmosphere into plants, soil and water. Considering that the carbon dioxide can be sequestered in both forests and wooden products, it's reasonable that more carbon will be stored by forests with the appropriate combination of the regrowth of younger forests and the wooden products. Thus, forest managers are ought to deliberate about the balance between the value of forests as living tress to grow and absorb the carbon and the value of forests harvested as wooden products. What's more, the forest managers should not only consider the factors about forests such as type and age of forests, geography, topography, and benefits and lifespan of forest products, but also the conservation and diversity of wild species, recreational uses and cultural considerations.

The International Carbon Management (ICM) Collaboration has been established to guide the management of forests all over the world under the consideration of different forest formation, climate, population, interests and values.

1. Design a carbon sequestration model to calculate the amount of carbon dioxide

1.

1.2 Overview of Our Work

2 Assumptions and Justifications

These are necessary assumptions for simplifying the model.

1.

3 Notations

4 Introduction and Results of Models on Problem 1(a)

4.1 Result of Gray Forecast model

5 Sensitivity Test

6 Evaluation of Model

Strength:

7 Conclusions

Policy Advice on Finless Porpoise Conservation

To: Relavant Authorities

From: MCM/ICM team XJ162

Date: February 18, 2022

Appendices