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| **Problem Chosen** F | **2020 MCM/ICM Summary Sheet** | **Team Control Number** 2010652 |

Where to go next

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# Introduction

## Background

With carbon dioxide emissions rising, global warming is increasingly serious. Recent decades have seen sea level rising. Several island nations, such as The Maldives, Tuvalu, Kiribati, and The Marshall Islands are facing a series of impacts of climate change, for instance, the reduction of the territory area, flood disaster and land salinization, etc. They are not only in danger of sinking but also face the challenges about cultural differences and human rights. Therefore, these environmentally displaced persons (EDPs) need to relocate as their homeland becomes uninhabitable. In fact, the term “climate refugees” is not legally valid as the 1951 Refugee Convention does not recognize environmental factors as criteria to define a refugee.

Recently, a UN ruling has opened the door to the theoretical recognition of EDPs as refugees. As the IPCC report says, if greenhouse gas emissions continue to rise, sea-level will rise at 1.1m by 2100 and low-lying coastal countries will be at risk of disappearing. It is necessary to design a reasonable model and analyze this complex issue of when, why, and how the UN should take action to address the problem on the increasing number of EDPs. In particular, the response system guidance should include the desire of protections of cultural heritage.

## Restatement of the Problem

考虑到背景，

考虑面临危险的人数和文化丧失的风险问题的范围

在人权和文化保护方面解决EDP的拟以政策

建立用于测量拟议政策的潜在影响的模型，分析如何用于设计和改进你的策略

对重要性作出解释

Considering greater team success, we are consulted to help understand our home soccer team’s dynamics by the coach of the Huskies. In particular, we need to explore how the complex interactions among the players on the field impacts their success. The goal is not only to examine the interactions that lead directly to a score, but to explore team dynamics throughout the game and over the entire season, to help identify specific strategies that can improve teamwork next season. According to the data provided from last season, our main work is as follows:

* Create a network for the ball passing between players, where each player is a node and each pass constitutes a link between players.
* Identify performance indicators that reflect successful teamwork. Clarify whether strategies are universally effective or dependent on opponents’ counter-strategies. Create a model to capture structural, configurational, and dynamical aspects of teamwork based on the performance indicators and team level processes.
* Inform the coach about what kinds of structural strategies have been effective for the Huskies in light of our teamwork model. Give the coach advice about what changes the network analysis indicates that they should make next season to advance team success.
* Generalize our findings and explain how to design more effective teams and what other aspects of teamwork should we capture to develop generalized models of team performance.

# Analysis of the Problem

# Symbols

Table

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# Simplifying Assumptions

# Sensitivity Analysis

# Strengths and weakness

# References

1. <https://migrationdataportal.org/themes/environmental_migration>
2. Cai Chang. Study on the problem of environmental refugees in Tuvalu [D]. Central China Normal University, 2012.
3. Mylers Allen. Global Warming of 1.5℃ [R]. IPCC, 2019.

# Appendix

## Data

## program