CLAIMS

[Claim 1] A device comprising:

an acquisition unit that acquires, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a time difference data generation unit that generates data of a time difference between the projected travel time and the actual travel time and the difference between the projected mooring time and the actual mooring time based on data acquired by the acquisition unit,

a fuel consumption difference data generation unit that generates fuel consumption difference data indicating the difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired by the acquisition unit, and

an output unit that outputs data indicated by the time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

[Claim 2] The device according to claim 1, wherein

the acquisition unit acquires data indicating fuel consumption according to speed of the ship, and

the device further comprises a projected fuel consumption calculation unit that calculates the projected fuel consumption based on the projected travel time, the distance between the ports and the fuel consumption according to speed indicated by the data acquired by the acquisition unit.

[Claim 3] The device according to claim 2, wherein

the data indicating fuel consumption according to speed indicates fuel consumption according to speed in any of various weather or marine conditions,

the acquisition unit acquires data indicating weather or marine conditions in the voyage, and

the projected fuel consumption calculation unit calculates the projected fuel consumption based on said data acquired by the acquisition unit.

[Claim 4] The device according to any of claims 1-3, wherein

the acquisition unit acquires data indicating fuel consumption according to speed of the ship, and

the device further comprises an actual fuel consumption calculation unit that calculates the actual fuel consumption based on said data acquired by the acquisition means.

[Claim 5] The device according to claim 4, wherein

the data indicating fuel consumption according to speed indicates fuel consumption according to speed in any of various weather or marine conditions,

the acquisition unit acquires data indicating weather or marine conditions in the voyage, and

the actual fuel consumption calculation unit calculates the actual fuel consumption based on the fuel consumption according to speed corresponding to said data acquired by the acquisition unit.

[Claim 6] A program for causing a computer to execute:

a process for acquiring, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a process for generating data of a time difference between the projected travel time and the actual travel time and the difference between the projected mooring time and the actual mooring time based on data acquired in the process for acquiring,

a process for generating fuel consumption difference data indicating the difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired in the process for acquiring, and

a process for outputting data indicated by the time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

[Claim 7] A computer-readable recording medium that continuously records a program for causing a computer to execute:

a process for acquiring, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a process for generating data of a time difference between the projected travel time and the actual travel time and the difference between the projected mooring time and the actual mooring time based on data acquired in the process for acquiring,

a process for generating fuel consumption difference data indicating the difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired in the process for acquiring, and

a process for outputting data indicated by the time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

[Claim 8] A method comprising:

a step for acquiring, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time

between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a step for generating data of a time difference between the projected travel time and the actual travel time and the difference between the projected mooring time and the actual mooring time based on data acquired in the step for acquiring,

a step for generating fuel consumption difference data indicating the difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired in the step for acquiring, and

a step for outputting data indicated by the time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

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[Claim 1] A device comprising:

an acquisition unit that acquires, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a time difference data generation unit that generates first time difference data indicating difference between the projected travel time and the actual travel time and second time difference data indicating a difference between the projected mooring time and the actual mooring time based on the data acquired by the acquisition unit,

a fuel consumption difference data generation unit that generates fuel consumption difference data indicating a difference between the projected fuel consumption and the actual fuel consumption based on the data acquired by the acquisition unit, and

an output unit that outputs data indicating the difference in time indicated by the first time difference data, the difference in time indicated by the second time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

[Claim 2] The device according to claim 1, wherein

the acquisition unit acquires data indicating fuel consumption according to speed of the ship, and

the device further comprises a projected fuel consumption calculation unit that calculates the projected fuel consumption based on the projected travel time, the distance between the ports and the fuel consumption according to speed indicated by the data acquired by the acquisition unit.

[Claim 3] The device according to claim 2, wherein

the data indicating fuel consumption according to speed indicates fuel consumption according to speed in any of various weather or marine conditions,

the acquisition unit acquires data indicating weather or marine conditions in the voyage, and

the projected fuel consumption calculation unit calculates the projected fuel consumption based on the data acquired by the acquisition unit.

[Claim 4] The device according to any of claims 1-3, wherein

the acquisition unit acquires data indicating fuel consumption according to speed of the ship, and

the device further comprises an actual fuel consumption calculation unit that calculates the actual fuel consumption based on the data acquired by the acquisition means.

[Claim 5] The device according to claim 4, wherein
the data indicating fuel consumption according to speed indicates fuel consumption according to speed in any of various weather or marine conditions,
the acquisition unit acquires data indicating weather or marine conditions in the voyage, and
the actual fuel consumption calculation unit calculates the actual fuel consumption based on the fuel consumption according to speed corresponding to the data acquired by the acquisition unit.

[Claim 6] A program for causing a computer to execute:
a process for acquiring, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a process for generating first time difference data indicating a difference between the projected travel time and the actual travel time and second time difference data indicating a difference between the projected mooring time and the actual mooring time based on the data acquired in the process for acquiring,

a process for generating fuel consumption difference data indicating a difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired in the process for acquiring, and

a process for outputting data indicating the difference in time indicated by the first time difference data, the difference in time indicated by the second time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

[Claim 7] A computer-readable recording medium that continuously records a program for causing a computer to execute:
a process for acquiring, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,
a process for generating first time difference data indicating a difference between the projected travel time and the actual travel

time and second time difference data indicating a difference between the projected mooring time and the actual mooring time based on the data acquired in the process for acquiring,

a process for generating fuel consumption difference data indicating a difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired in the process for acquiring, and

a process for outputting data indicating the difference in time indicated by the first time difference data, the difference in time indicated by the second time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.

[Claim 8] A method comprising:

a step for acquiring, for a voyage of a ship including mooring at one or more relay ports between a departure port and destination port, data indicating a projected travel time between ports, a projected mooring time at a relay port, projected fuel consumption which is fuel consumption required for travel between ports, an actual travel time between ports, an actual mooring time at a relay port, actual fuel consumption required for travel between ports, and distance between ports,

a step for generating first time difference data indicating a difference between the projected travel time and the actual travel time and second time difference data indicating a difference between the projected mooring time and the actual mooring time based on the data acquired in the step for acquiring,

a step for generating fuel consumption difference data indicating a difference between the projected fuel consumption data and the actual fuel consumption data based on the data acquired in the step for acquiring, and

a step for outputting data indicating the difference in time indicated by the first time difference data, the difference in time indicated by the second time difference data and the difference in fuel consumption indicated by the fuel consumption difference data.