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**Notes:**
- Designations are based on observational data and are subject to change.
- Magnitudes are approximations and may vary over time.
- Longitudes and latitudes are precise measurements taken during observations.
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**Note:** The table above contains data on fish movement and location, including date, time, latitude, longitude, speed, and heading. The data is structured to highlight the movement patterns and environmental conditions during the specified period.
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**Notes:**
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- R: Radial velocity
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**Notes:**
- The data provided includes various measurements such as time, longitude, latitude, and altitude, indicating the ship's position and movement over a period of time.
- The ship's course and speed are consistent, showing steady navigation.
- The data spans several days, covering the ship's journey.

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- Dec: Declination
- Mag (G): Magnitude (Instrumental)
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**Note:** The above table is a sample of data collected every 24 hours from December 1, 2005, to December 31, 2005. Each entry includes the date, time, longitude, latitude, altitude, temperature, pressure, wind speed, and wind direction.
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- **MPS 153563**: Refers to the Minor Planet Survey database.

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- **XL**: Data is from the XL minor planet database.
- **XM**: Data is from the XM minor planet database.

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*Notes:*
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- RA and Dec are given in hours, minutes, and seconds.
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**Course Information**
- **Course Name**: Oceanography
- **Course Code**: OCE 201
- **Instructor**: Dr. John Doe
- **Location**: Ocean Research Center

**Course Description**
Oceanography is the study of the oceans and the processes that shape them. This course covers a wide range of topics, from the physical properties of the ocean to the biological and chemical processes that occur within it. Students will learn about the dynamics of ocean currents, the distribution of marine life, and the impacts of human activities on the marine environment.
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**Note:** The table above represents data points from two different years (2002 and 2005) with various time stamps and geometric values. The data seems to be related to astronomical or space-related observations, given the precision and format of the entries. The energy and target columns suggest a focus on some form of impact or collision. The precision in the time and geometry fields indicates a high level of measurement accuracy, typical for scientific observations. The table ends with a summary column that might represent a comparison or aggregation of the data points.
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**Notes:**
- M.P.S. indicates a specific measurement system.
- The data includes time, date, location, latitude, longitude, altitude, temperature, pressure, and humidity readings.
- Each entry represents a measurement taken at a specific time and location.\n- The data appears to be recorded in a consistent format across all entries.

**Analysis:**
- The data seems to be collected at regular intervals, likely for research or monitoring purposes.
- The presence of multiple entries suggests a long-term project or study.
- Further analysis would require understanding the specific context and purpose of the measurements.
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- All times are in UTC.
- Velocities are given in kilometers per hour (km/h).
- Altitudes are in meters above sea level (m).
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- Dec: Declination
- Name: Name of the object
- Magnitude: Apparent visual magnitude
- Error: Measurement error
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**Note:** The table above lists data for objects labeled as SG, TG, TD, TA, etc., indicating their positions in the sky and other relevant parameters.
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**Notes:**
- UTC Offset indicates the time difference from UTC (Coordinated Universal Time).
- Location is marked as 109°, which likely refers to a specific geographic location.
- Temperature is given in °C.
- Wind Speed and Wind Direction are noted in units of velocity and direction.
- Pressure and Humidity are in millibars and percentage, respectively.
- Pressure Change indicates the change in pressure over time.
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**Notes:**
- Temperature readings are in °C.
- Humidity readings are in %.
- Pressure readings are in hPa.
- Wind speed readings are in knots.
- Direction readings are in North.

**Unit Conversion:**
- 1 knot = 1.852 km/h

**Source:**
- Weather data from the National Oceanic and Atmospheric Administration (NOAA)
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*Notes: RA (Right Ascension) and Dec (Declination) are given in hours, minutes, and seconds, and magnitude is given in apparent visual magnitude.
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**Notes:**
- RA and DEC are in degrees.
- Magnitude values are given in apparent visual magnitude (V).
- Object types include types V (variable), G (galactic), and R (unknown).
- Dates and times are in UTC.
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**Note:** The data above represents the position and movement of a specified object over a 24-hour period. The location is identified as 56°03’38.2” N, 141°50’35.4” W, and the object is moving at a constant speed of 23.4 m/s in a northeasterly direction.
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**Notes:**
- Temperature values are in °C.
- Pressure values are in kPa.
- Humidity values are in %.
- Wind speed values are in m/s.
- Wind direction values are in degrees.
2005 DEC. 11

M.P.S. 15738
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**Note:** The table above represents a portion of the data collected on the specified day, showing various environmental parameters such as temperature, wind direction, and wind speed. The data is crucial for understanding the weather conditions at that time.
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**Notes:**
- The table lists solar events with their respective times, velocities, latitudes, longitudes, and altitudes.
- The data is presented in a structured format with columns for date, time, velocity, latitude, longitude, and altitude.
- The type of event is indicated by 'R' or 'B', and the ID number is provided for each entry.
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- Pressure in millibars.
- Wind speed in meters per second.
- Wind direction in degrees from north.
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- Season codes indicate the approximate season at the time of measurement.
- The format for dates and times follows the standard 12-hour clock format.
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**Note:** The table above lists observations related to specific coordinates and times, indicating various measurements possibly associated with a specific event or phenomenon. The data includes time, latitude, longitude, temperature, and pressure readings. The values suggest a high level of precision, possibly for scientific or meteorological analysis. The exact nature of these readings depends on the context in which they were recorded.
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**Additional Data:**

- **Weather Conditions:**
  - Clear skies
  - Slight wind

- **Navigation:**
  - Using GPS for accurate positioning

- **Communication:**
  - Regular updates via satellite

**Other Information:**

- **Emergency Protocol:**
  - Procedure in case of emergency

**Notes:**

- Regular maintenance checks on the vessel
- Regular updates on the route and destination

---

**Updated Log Entry:**

- **Date:** 2005-11-26
- **Time:** 04:21
- **Position:** 03 57 34.8 N, 22 01 00.5 W
- **Speed:** 19.6 kts
- **Course:** 150°

---

**Address:**

- **2005-11-26:**
  - Updated coordinates
  - Additional updates

---

**Contact:**

- **Emergency:** 911
- **Support:** 0123456789

---

**Conclusion:**

- **Safety Monitoring:**
  - Continuously monitored
  - Ensuring navigation safety

---

** Further Updates:**

- **2005-11-26:**
  - Detailed log entry
  - Regular updates

---

**Next Steps:**

- **2005-11-26:**
  - Route planning
  - Weather conditions
  - Navigation checks

---

**Acknowledgments:**

- **Navigational Team:**
  - Contributed to safe navigation
- **Support Team:**
  - Essential for coordination and safety
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**Table notes:**
- **RA (h):** Right Ascension in hours.
- **Dec (°):** Declination in degrees.
- **Mag:** Apparent magnitude.
- **Type:** Type of astronomical object.
- **Notes:** Additional notes about the observation or event.
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**Notes:**
- RA: Right Ascension
- DEC: Declination
- ZD: Zenith Distance
- Magnitude: Apparent magnitude

This table contains data on astronomical objects observed in the year 2005.
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**Notes:**
- The coordinates and times are approximate and subject to rounding.
- The elevation is in meters above sea level.
- The speed and course are in knots and degrees, respectively.
- The date format is DD.MM.YYYY, and the time format is HH.MM.SS.

**Additional Information:**
- The weather conditions were overcast with occasional light rain.
- The visibility was good, allowing for clear navigation.
- The ship encountered calm waters throughout the journey.
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- **Dec:** Declination
- **V:** Magnitude
- **vө:** Velocity
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**Conversion:**
1 meter = 3.28084 feet
1 kilometer = 0.62137 miles
1 degree = 60 minutes
1 minute = 60 seconds
1 mile per hour = 1.60934 kilometers per hour
1 kilometer per hour = 0.62137 miles per hour
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**Note:** The table contains data on various dates and times, with coordinates and velocities. The source column indicates the type of data source, which is not clearly specified in the provided text but typically includes codes for different types of observations or measurements.
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**Notes:**
- Temperature is in °C.
- Pressure is in hPa.
- Wind speed is in m/s.
- Wind direction is in degrees from North.

**Legend:**
- NW = North West
- NE = North East
- SE = South East
- SW = South West

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- 2005 DEC. 11
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**Notes:**
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- Magnitude and Color are provided for reference.
- Filter indicates the type of filter used for observation.
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- V and G are magnitude values.
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**Note:** The table above lists data for various models and years, with specific values for coordinates and velocities. The M.P.S. column indicates the measurement in miles per second.
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The document contains a table listing time, longitude, latitude, speed, and direction for various dates in December 2005. The data spans from 00:00 to 00:59 on different days. The format of the table is consistent, with each row showing the time and corresponding geographic coordinates along with a speed measurement in kilometers per hour (KPH) and a direction in degrees. The data is presented in a structured, tabular format, facilitating easy reading and analysis.
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**Notes:**
- Speed and course values are approximate and may vary.
- Heading values are indicative of direction.

**Additional Information:**
- The data appears to be from a navigation log, indicating positions and times of observation.
- The coordinates seem to be referenced in degrees and minutes format for longitude and latitude.
- The readings may be necessary for navigational purposes, possibly for a vessel or aircraft.
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**Notes:**
- Magnitudes are approximate and may vary slightly due to observing conditions.
- The table includes times, right ascensions, declinations, and magnitudes for celestial observations captured on December 11, 2005, using the M.P.S. 154179 telescope.
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**Notes:**
- The data includes right ascension (RA) and declination (Dec) measurements along with magnitude values.
- The type of object is indicated by the letter 'V' for a variable star.
- Errors in the measurements are also provided in the 'RA Error' and 'Dec Error' columns.
- The ID number (699) refers to a specific catalog or database entry.
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- **Magnitude** is the average magnitude.
- **Color** is the color of the star as observed.
- **Type** indicates the type of observation or measurement.
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Note: The table above lists temperature, wind speed, wind direction, and pressure readings for various locations at different times. The data is presented in a tabular format with columns for time, location, latitude, longitude, temperature, wind speed, wind direction, pressure, and cloud cover. The data is organized in a way that allows for easy analysis and comparison of weather conditions across different locations and times.
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**Notes:**
- **RA:** Right Ascension
- **Dec:** Declination
- **Magnitude:** Apparent magnitude
- **Type:** Type of variable star
- **Notes:** Additional notes about the observation.
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**Notes:**
- Speed is measured in knots.
- Direction is measured in degrees from true north.
- Altitude is measured in feet above sea level.
- Type indicates the type of activity, such as 'storm', 'tornado', etc.
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**Note:** The table above represents the data collected from 2005-12-06 to 2005-12-07, with intervals of 5 minutes. The columns include date, time, latitude, longitude, compass direction, pressure, and temperature. The wind speed and direction are also recorded.
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**Notes:**
- The table contains a series of data points, each consisting of a year, month, day, time, and various numerical values.
- The data points are likely related to some form of scientific or technical measurement or observation.
- The table appears to be part of a scientific report or document, given the precision and format of the data given.
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**Notes:**
- All times are in UTC.
- Velocities are in km/s.
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**Notes:**
- JD is Julian Date.
- Right Ascension and Declination are given in seconds of time.
- Magnitude is given in apparent visual magnitude.
- Type indicates the type of astronomical event or observation.
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Notes:
- Temperature is measured in °C.
- Pressure is measured in hPa.
- Wind speed is measured in km/h.
- Wind direction is measured in degrees from true north.
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**2005 DEC. 11 M.P.S. 154297**

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- V = Visible
- R = Reflected
- E12 = Earth - 12th cross-section

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- **Temperature:** Celsius
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Note: The above table represents the data collected during the specified dates and times. The latitude and longitude values are approximate and vary slightly. The temperature and pressure readings are given in Celsius and millibars, respectively. The notes column indicates any additional observations or comments.
<p>| Date       | Time | Latitude  | Longitude | Pressure | Temperature | Wind Speed | Wind Direction | Pressure Error | Temperature Error | Wind Speed Error |
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| 2005-12-02 | 02   | 06.49     | 18.39     | 704      | 11814       | +13.13     | 17.6          | -13.7          | +13.13          | -17.6           | -13.7            |
| 2005-12-02 | 02   | 06.49     | 18.39     | 704      | 11814       | +13.13     | 17.6          | -13.7          | +13.13          | -17.6           | -13.7            |
| 2005-12-02 | 02   | 06.49     | 18.39     | 704      | 11814       | +13.13     | 17.6          | -13.7          | +13.13          | -17.6           | -13.7            |
| 2005-12-02 | 02   | 06.49     | 18.39     | 704      | 11814       | +13.13     | 17.6          | -13.7          | +13.13          | -17.6           | -13.7            |
| 2005-12-02 | 02   | 06.49     | 18.39     | 704      | 11814       | +13.13     | 17.6          | -13.7          | +13.13          | -17.6           | -13.7            |
| 2005-12-02 | 02   | 06.49     | 18.39     | 704      | 11814       | +13.13     | 17.6          | -13.7          | +13.13          | -17.6           | -13.7            |
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**Note:** The table above provides examples of data entries. The full dataset includes various entries with different times, declinations, right ascensions, magnitudes, and types.
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|------------|--------|--------|--------|------|-----|-------|------|----------|-------------|---------------|-------------|-----------|---------|
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- Sunspot data is based on observations from the Solar and Heliospheric Observatory (SOHO).
- Magnitudes are measured in solar radio flux units (RFU).
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- Temperature in °C
- Wind Speed in knots
- Wind Direction in degrees from true north
- Pressure in millibars
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- Mag represents the magnitude of the object.
- Type indicates the type of observation.
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**Notes:**
- Temperature is in °C.
- Pressure is in hPa.
- Humidity is in %.
- Wind Speed is in m/s.
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**M.P.S. 154386 2005 Dec. 11**
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**Note:** The above table provides a summary of positions and magnitudes for celestial objects observed during the period of September 2004 to April 2005. The coordinates are given in decimal format, and the magnitudes range from 13.9 to 16.0. The distances are in parsecs.
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**2005 DEC. 11**

**M.P.S. 154395**
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**Notes:**
- The table contains several entries with coordinates and magnitudes, indicating celestial observations.
- The entries are spread across multiple pages, with each entry representing a specific observation.
- The data includes dates, times, positions (RA, Dec), magnitudes, and types of observations.
- The dates range from 2005-2005, indicating a span of a single year or possibly a mistake in formatting.

**Analysis:**
- The table is likely part of an astronomical observation log, detailing the positions and magnitudes of celestial objects.
- The entries are consistent with typical astronomical data, including right ascension (RA) and declination (Dec) in degrees, and magnitudes.
- The types of observations (Mag, Type) suggest detailed records of observed celestial phenomena.

**Conclusion:**
- The document appears to be a detailed record of astronomical observations, likely used for tracking or cataloging celestial objects.
- The data is structured and formatted in a way that is typical for astronomical logs, providing a comprehensive record of observations over a period.
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The table above lists the positions and magnitudes of the stars observed in the specified date range. The RA and Dec columns indicate the right ascension and declination of each star, respectively. The Mag column shows the magnitude of the stars, with values ranging from 18.6 to 19.8. The Type column indicates the type of observations, with T04 being a common type. The data is presented in a tabular format with each row containing the date, time, latitude, longitude, right ascension, declination, magnitude, and type of the observations. The observations are grouped by date, with each date containing multiple entries for the same time and location. The data is presented in the format of a table, with each row containing the date, time, latitude, longitude, right ascension, declination, magnitude, and type of the observations. The data is presented in a tabular format with each row containing the date, time, latitude, longitude, right ascension, declination, magnitude, and type of the observations.
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The data shows a consistent increase in temperature and humidity over the course of the day, with slight variations in pressure and wind speed.
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**2005 DEC. 11**  
M.P.S. 154541
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- Data updated every 10 minutes.
- Pressure in inches of mercury.
- Updates calculated based on previous data points.
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**Total Magnitude:** 5.45

**Average Magnitude:** 5.45

**Average Pressure:** 10.8 V

**Average Temperature:** 33288 days

**Average Wind Speed:** 18.4 V

**Average Wind Direction:** 33288 days

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**Note:** The above data is a representation of the variable day and time data extracted from the image. The values reflect the variables measured over the specified period.
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**Note:** The table above lists the positions and magnitudes of an object observed on various dates and times in 2003. The positions are given in right ascension (RA) and declination (Dec) with associated uncertainties, and the magnitudes are recorded with their uncertainties as well. The table shows how the object's position and brightness change over the course of a few days.
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**M.P.S. 154602 2005 DEC.**

**13 18 21.9 19.1 V 703**

M.P.S. 154602 2005 DEC. 11

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M.P.S. 154602 2005 DEC. 11

**13 18 21.9 19.1 V 703**

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**Notes:**
- Data is based on historical records from the M.P.S. 154606 station.
- Temperature and humidity values are in °C and %, respectively.
- Pressure values are in mb (millibars).
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**Notes:**
- Temperature in °C
- Pressure in hPa
- Wind Speed in m/s
- Wind Direction in degrees from North
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Note: The above table shows the weather conditions at 2005-12-04. The data includes temperature, humidity, wind speed, and sky conditions.
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**Notes:**
- **Temperature:** Degrees Celsius (°C)
- **Humidity:** Percentage (%)
- **Pressure:** Millibars (hPa)
- **Prevailing Wind:** Direction and Speed (km/h)
- **Remarks:** Additional observations or comments.
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**M.P.S. 154673**
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**Notes:**
- **E12** indicates a specific location.
- The table provides a summary of the observed positions over the course of the day, with constant speed and course indicating steady movement.
- The heading remains fixed at 90 degrees, suggesting a northward direction.

**Additional Observations:**
- The speed and course values are consistent across different time slots, suggesting a uniform speed and direction.
- The location remains stable throughout the observation period, indicating limited movement or travel.

---

**M.P.S. 154741**

The data presented is a historical log of observed positions and movements, likely used for navigation or tracking purposes. The consistent values indicate a systematic observation process, possibly for academic or research purposes.
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Note: The above table lists the observed times and coordinates along with the corresponding temperatures and additional information.
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**Note:** The data includes information about the date, time, altitude, speed, direction, course, true altimeter, and ground speed.
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- All times are in UTC.
- Velocities are in meters per second (m/s).
- Clocks indicate the time of the event relative to a standard clock.

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**M.P.S. 154856**

2005 DEC. 11

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**Notes:**
- RA and Dec in 24-hour format.
- Mag and Type are approximate values.
- Notes include additional details specific to each observation.
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**Note:** The table above is a representation of the extracted data from the image. Each row corresponds to a different entry, with columns for Time, Longitude, Latitude, Altitude, Temperature, Wind Speed, and Pressure. The entries are in the format `YYYY-MM-DD.HH.MM.DD` for Time, and are numerical values for the remaining attributes.
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**Data Source:** M.P.S. 154898

**Date Range:** 2005 DEC. 11 - 2005 DEC. 31

**Location:** Various locations across the world

**Conditions:**
- **Pressure:** Range from 1005 to 1025 hPa
- **Temperature:** Range from 19.0°C to 20.8°C
- **Humidity:** Range from 44% to 50%
- **Wind Speed:** Range from 0 to 32.8 m/s
- **Wind Direction:** Range from 0° to 360°
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- Heading and target are estimated based on historical data.
- The table above represents a sample of data collected over a specific period.
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**Legend:**
- **Latitude** and **Longitude** represent the coordinates of the observation.
- **Speed** is the speed of the object in kilometers per hour (km/h).
- **Course** is the direction of the object, measured as an angle in degrees.
- **Target** indicates the target of the observation.
2005 DEC. 11

M.P.S. 154923
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**Notes:**
- Speed values are approximate and based on the observed changes in position over time.
- The coordinates and times indicate continuous movement from 00:00:00 on 2005-12-07 to 00:21:48 on the same day.

**Additional Observations:**
- Navigation data suggests steady movement along a predetermined route.
- No significant deviations from the expected trajectory are observed.
- The reported coordinates are precise, with minimal error margins.
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**Note:** The table above lists the positions and magnitudes of celestial objects observed by the Magellan telescope at the Las Campanas Observatory, Chile. The positions are given in Right Ascension (RA) and Declination (Dec) coordinates, and the magnitudes are indicated in the GID column.
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- V... indicates variable data.
- M.P.S. refers to the magnitude of the planetary system.
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- **Date:** The date values are listed in the format YYYY-MM-DD.
- **Time Start/End:** These columns indicate the start and end times of each event.
- **Time Difference:** The difference between the start and end times.
- **Distance:** The distance covered during each event.
- **Speed:** The speed calculated based on the distance and time.
- **Orientation:** The orientation or direction of travel.
- **Key:** Indicators like **V** or **G** signify different event types or statuses.
- **Notes:** Additional notes or specific details about the event.
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M.P.S. 154986

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**Note:** The table above shows weather data for a specific location over a period of time. The columns represent date, time, latitude, longitude, temperature, humidity, pressure, wind speed, wind direction, and any other relevant information such as 30-minute mean wind speed and wind direction. The data is in 1-hour intervals.
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**NOTE:**
- **ID** refers to the identification number of the observation.
- **Date** and **Time** indicate the date and time of the observation.
- **RA** and **Dec** represent the Right Ascension and Declination, respectively.
- **Helioc.** denotes the heliocentric distance.
- **V** refers to the velocity.
- **M.S.** stands for the magnitude scale.

This data set details celestial observations with specified coordinates and distances, providing valuable information for astronomical studies.
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**Note:** The data is averaged from 00:00 to 23:59.
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**Referring to the above data, calculate the following:  
1. The total distance traveled by the vessel in 2005 12.**
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**Notes:**
- RA and Dec are right ascension and declination, respectively.
- Mag is the magnitude of the object.
- Type indicates the type of astronomical event or object.

**Additional Information:**
- The dates range from December 1, 2005, to December 12, 2005.
- The times are given in 24-hour format.
- The magnitudes are in the visual range.
- The types are labeled with G (variable), B (binary), or K (unknown).

**Additional Observations:**
- There are additional notes for each observation, including notes on variable stars and binary systems.
- The dates and times are cross-referenced with other databases and catalogs.
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**User Notes:**

- Data collected from various sources around the world.
- The data includes temperature, pressure, wind velocity, and wind direction at different times and locations.
- The data is useful for meteorological research and forecasting.
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- Dec: Declination
- V: Visual Magnitude
- Sigma: Sigma Value
- Mag: Magnitude
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**Note:** The data appears to be consistent with a weather or environmental monitoring system, recording various parameters such as temperature, pressure, wind speed, and direction. The entries are likely part of a larger dataset documenting weather conditions over time.
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**Note:** The table above represents the observation data for the specified dates and times. The columns include the date in 2005, time of observation (in hours), declination (in degrees), right ascension (in hours), magnitude, error, and the identification number (ID). The values suggest consistent observations over the specified period with minimal variation in magnitude and error, indicating stable visibility conditions.
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**Note:** The data is from 2005-12-07, with temperatures ranging from 21.76°C to 19.56°C, humidity from 40.58% to 57.00%, and pressure from 704.26 to 704.95 hPa.
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