

Use Case 2: Request Archived Weather Data

Scope: Weather Station

Level: User Goal

Primary Actor: User

Secondary Actor: Archiving System (Database)

Scenario: Request Archived Temperature Data

Related Use Cases: N/A

Stakeholders and Interests:

- User: Wants to retrieve archived temperature data.
- Weather Services: Wants to retrieve and compare archived temperature data for the purpose of comparing to other weather stations, and for accuracy of instrumentation and correction of Weather Station placement if needed.
- National Weather Service: Wants archived spotter weather data.
- Weather Scientists and Observers: Wants to to observe archived meteorological data in a given locale.

Preconditions: The Weather Station has archived the temperature data for the given time frame requested; the archiving system is available for requested data retrieval.

Success Guaranties (Postconditions): Archived temperature data is retrieved from the archiving system, and returned to the User.

Main Success Scenario:

User	System
1. Request Archived Temperature Data at a given time in the desired units (Metric, English, Absolute).	
	2. Queries the external archiving system for the temperature data at the requested time.
	3. Presents the archived data to the User in the desired Units.

Alternative Flows:

2a. If the external archiving system is not available at the request time, then the system alerts the user—with a possible reason as to why.

2b. If the external archiving system is not available, the system will try another (redundant) archiving system to see if the data is available in the redundant system—alerting the user of the issue and indicating its search in another archiving system.

2c. If the no temperature data is available at the User requested time, then the System alerts the User of the unavailability of the requested temperature data.

Special Requirements: Somehow we want the archiving systmes to be ATOM(ic) to recover from a crash as best as possible.