🧱 STEP 1: REST Sensor Configuration

Add this to your `configuration.yaml` or a `sensors.yaml` file:

```
sensor:
  - platform: rest
    name: SPRO3 Water Data
    resource:
https://api.water.noaa.gov/nwps/v1/gauges/SPRO3/stageflow
    value_template: "{{ value_json.observed.data[-1].primary }}"
    json_attributes:
      - observed
      - forecast
    scan_interval: 600  # Update every 10 minutes
```

This grabs the full observed and forecast dataset and stores it in attributes.

🧱 STEP 2: Template Sensors for Current and Historical Values

In the same file (or under `template:`):

```
template:
  - sensor:
      - name: "SPRO3 Latest Stage"
        unit_of_measurement: "ft"
        state: >
          {% set obs = state_attr('sensor.spro3_water_data',
'observed').data %}
          {{ obs[-1].primary | float if obs else 'unknown' }}

      - name: "SPRO3 Latest Flow"
        unit_of_measurement: "kcfs"
```

```
        state: >
          {% set obs = state_attr('sensor.spro3_water_data',
'observed').data %}
          {{ obs[-1].secondary | float if obs else 'unknown' }}

      - name: "SPRO3 Previous Stage"
        unit_of_measurement: "ft"
        state: >
          {% set obs = state_attr('sensor.spro3_water_data',
'observed').data %}
          {{ obs[-2].primary | float if obs | length > 1 else
'unknown' }}

      - name: "SPRO3 Forecast Stage (Next)"
        unit_of_measurement: "ft"
        state: >
          {% set forecast = state_attr('sensor.spro3_water_data',
'forecast').data %}
          {{ forecast[0].primary | float if forecast else 'unknown' }}
```

You can add more forecast points or timestamps as needed.

🧱 STEP 3: Dashboard (Lovelace) Card using Mushroom

Here's an example using `mushroom-entity-card` and a graph:

```
type: vertical-stack
cards:
  - type: custom:mushroom-entity-card
    entity: sensor.spro3_latest_stage
    name: SPRO3 Water Stage (ft)

  - type: custom:mushroom-entity-card
    entity: sensor.spro3_latest_flow
    name: SPRO3 Flow Rate (kcfs)
```

```
- type: custom:mini-graph-card
  name: SPRO3 Stage History
  hours_to_show: 24
  points_per_hour: 1
  entities:
    - sensor.spro3_latest_stage

- type: custom:mini-graph-card
  name: SPRO3 Forecast
  hours_to_show: 12
  points_per_hour: 1
  entities:
    - sensor.spro3_forecast_stage_next
```

🛠️ Optional: Long-Term Storage

If you want a longer-term view (e.g. 7 days), set `state_class: measurement` and `device_class: water` and enable recorder/history.