

# Water Quality Data Processing



## Objectives of this session

1

#### **HYPACK Environment**

- · What software tools are included
- Changes to streamline the workflow

2

#### **Processing WQ Sensor Data**

- New WQS Editor
- Selecting Sensor Data
- Saving Contours from WQS Editor
- Saving Sorted data from WQS Editor

3

#### **Processing ADCP In situ Data**

- Displaying the profile information
- Viewing individual Ensembles



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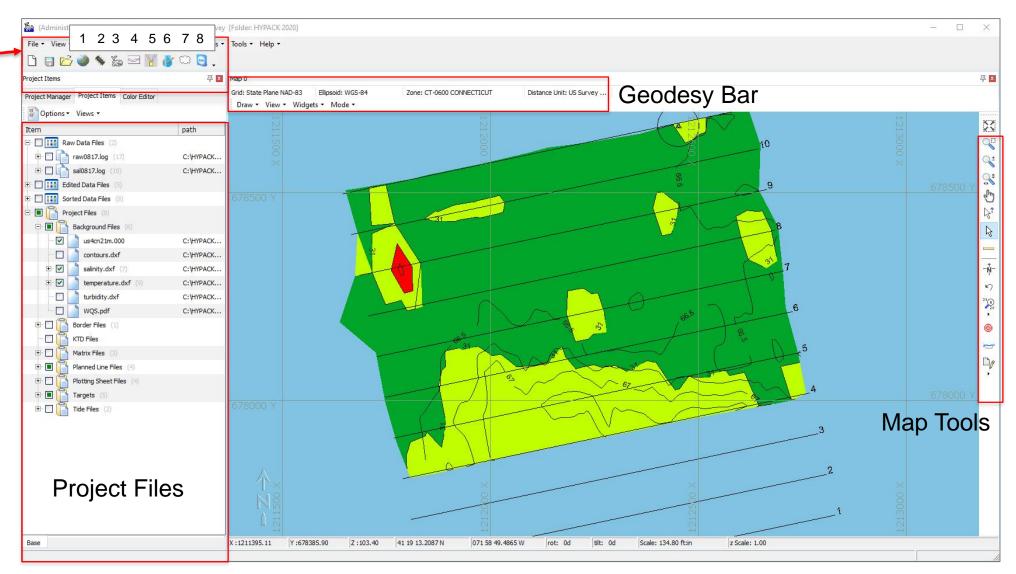
# HYPACK Environment



#### **HYPACK Shell**

#### Icon And Menu Area

- 1. Geodetic Parameters
- 2. Hardware Settings
- 3. Survey Program
- 4. ADCP Processing
- 5. ADCP Insitu Processing
- 6. WQ Editor
- 7. Point Cloud Viewer
- 8. Remote Assistance





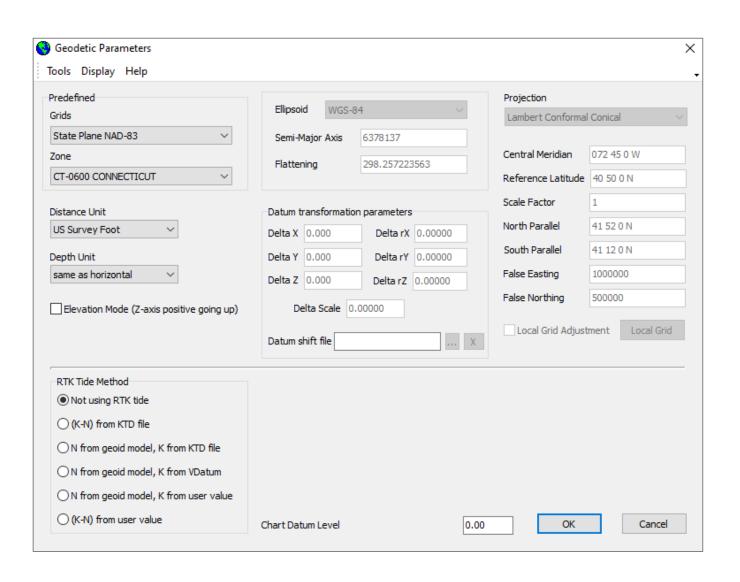


#### **Geodetic Parameters**

The Geodetic Parameter options within HYPACK allows the user to choose from pre-defined geodesy settings world wide.

The user has the ability to create their own geodetic parameters if required or work on a local grid.

HYPACK will convert from WGS-84 to any projection coordinates.









# Environmental Editor



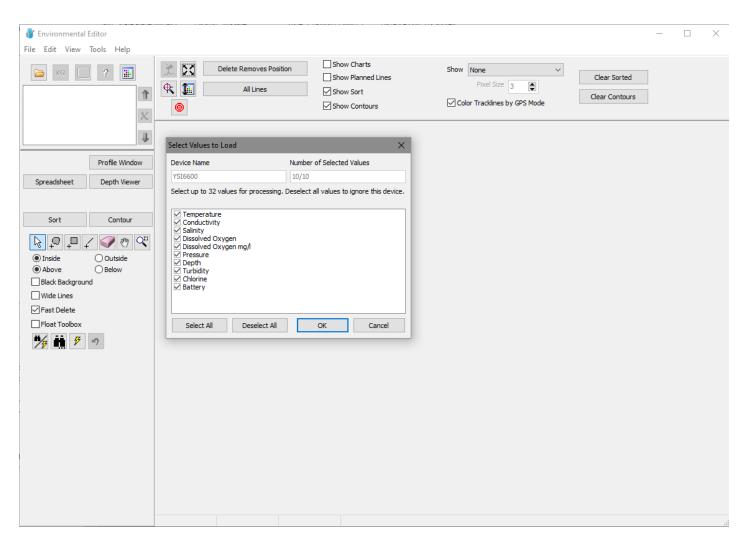
#### **Environmental Editor**

The Environmental Editor program can load both Raw data collected as well as processed session data.

Data collected by HYPACK is recorded in an SMI record.

During the Read Parameter phase of loading data the user can choose which sensor data to process

Environmental Editor saves to a binary \*.smi session format as well as XYZ and HYPACK Edited All Files

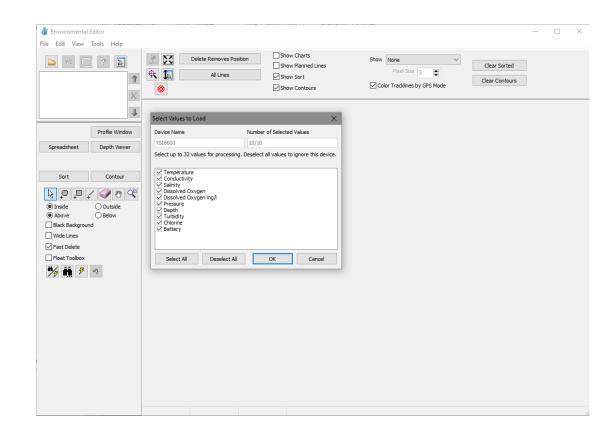






#### **Input Data**

- HYPACK Survey (\*.raw & \*.log) files with SMI records
  - Example Drivers:
    - YSI-6000
    - YSI EXO
    - Generic Input Parser
- Edited \*.SMI files saved from HYPACK's Environmental and Magnetometer Editors
- i3XO EcoMapper \*.log files
- EXO \*.bin files







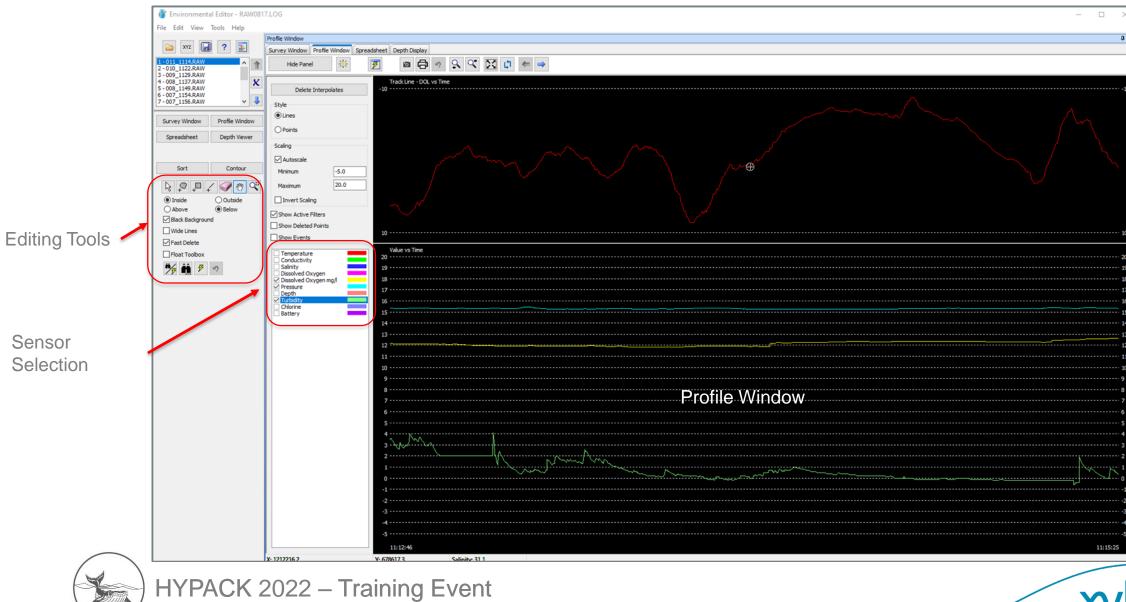
# Environmental Editor – Survey Window







#### Environmental Editor – Profile Window



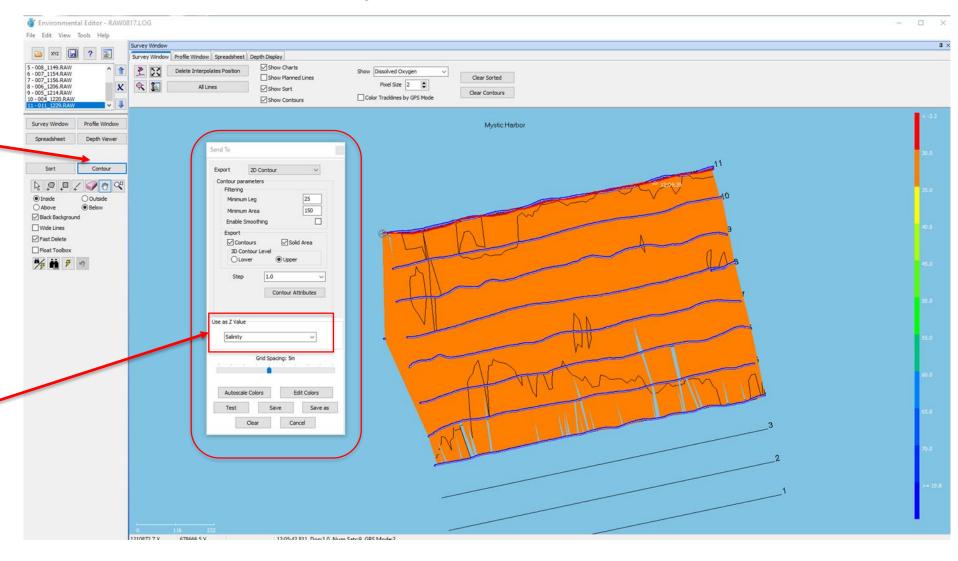


# Environmental Editor – Contour Option

Contouring has been embedded in the WQS Editor —

The same options as are available in the TIN MODEL program

Contours can be generated from any sensor without reloading the data







### Environmental Editor – Sort Option

Data Sorting has been embedded in the WQS Editor

The same options as are available in the SORT program

