



Figure 1: Virtual Puget Sound- Initial view of the VPS world.

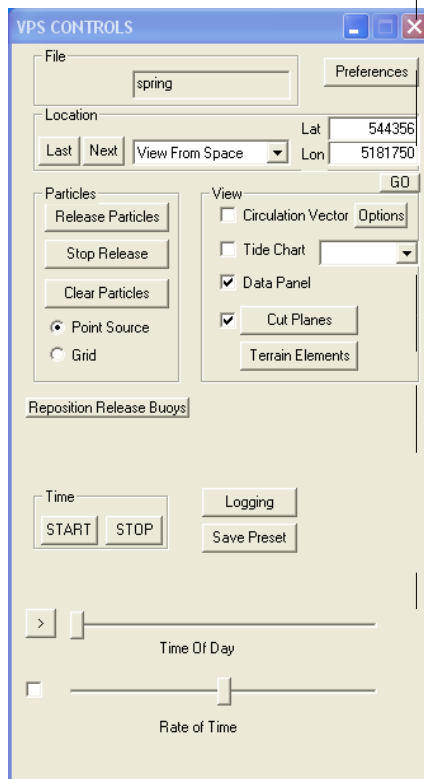


FIGURE 2: VPS Controls Panel

FIGURE 1 shows the image that appears when VPS-Desktop V3.0. has finished loading.

FIGURE 2 shows the VPS-Desktop V3.0. Controls panel (If it is closed, [press the](#) “Enter” key to get it back)

**NAVIGATION** (Perspective: first person shooter)

To change position, use the Location drop-down menu, top of the VPS Controls panel.

To FLY, [as well as](#) (change position and look around in the world) use **the mouse**:

- Move **f**Forward/**b**Backward **or** **l**eft/**r**ight, hold left button and slide mouse forward ~~or~~ backward **or** left/right.

- **L**ook **l**eft **and** **r**ight, hold left button and ~~slide~~ **turn** mouse left or right.

- Move **u**p **and** **d**own, hold left **and** right button together and ~~then~~ slide mouse forward or backward.

- Look **u**p/~~and~~ **d**own **or** **l**eft/**r**ight, hold ~~middle?~~ **and** right button **together** and slide mouse forward/~~or~~ backward **or** left/right

**FEATURES AND FUNCTIONS**

## 1. View Options in Figure 2

1.1. **Circulation Vector** (Fig. 3): Options include scale and data options (x, y, z)

1.2. **Tide Chart** (Fig. 4): check the box [and click](#) **to select one location** to see the tidal change during a day. [In the mean time, check the box \[START\] in Time options.](#)

1.3. **Data Panel** (Fig. 5): Salinity ppt, speed m/s, compass direction, depth (m), time (hr).

1.4. **Cut Planes** (Fig. 6): [Horizontal and](#) Vertical representation of salinity, temperature in water column.

## 2. Particles Options in Figure 2

2.1. **Point Source option**: [Release Particles](#) button releases a continuous stream of particles from individual locations marked by “buoy.”

2.2. **Grid option**: [Release Particles](#) button simultaneously releases a suite of particles –initially positioned at equidistant surface locations from each other.



Fig. 3: Circulation Vectors

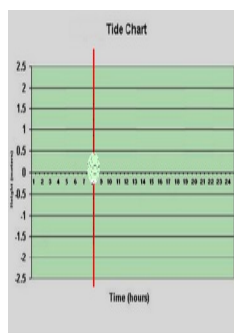


Fig. 4: Tide chart

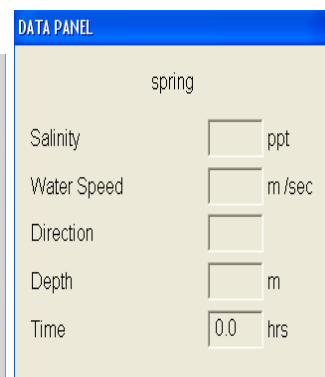


Fig. 5: Data Panels

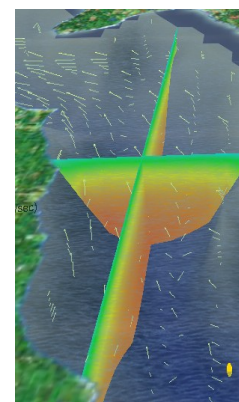


Fig. 6: Cut planes

## 3. Parameter Cut Planes (Figure 7)

3.1. Click on **to select** “Salinity” or “Temperature”, top of the Parameter Cut Planes panel.

3.2. To turn on the horizontal cut plane, check the box [Horizontal Plane on](#) (default setting); drag the **Depth** slider up (surface) and down (bottom) to change the depth.

3.3. To use vertical cut planes, uncheck [Horizontal Plane on](#) and then drag the slider of “**East-West Plane**” up and down or “**North-South Plane**” left and right to change the location of cut planes (Figure 6)

3.4. Parameter setting of salinity: 20-28 [is a good start but best visualization will depend on model data being used.](#)

3.5. Parameter setting of temperature: ~~????~~ [14-19](#) ~~28-13~~ [is a good start but best visualization will depend on model data being used.](#)

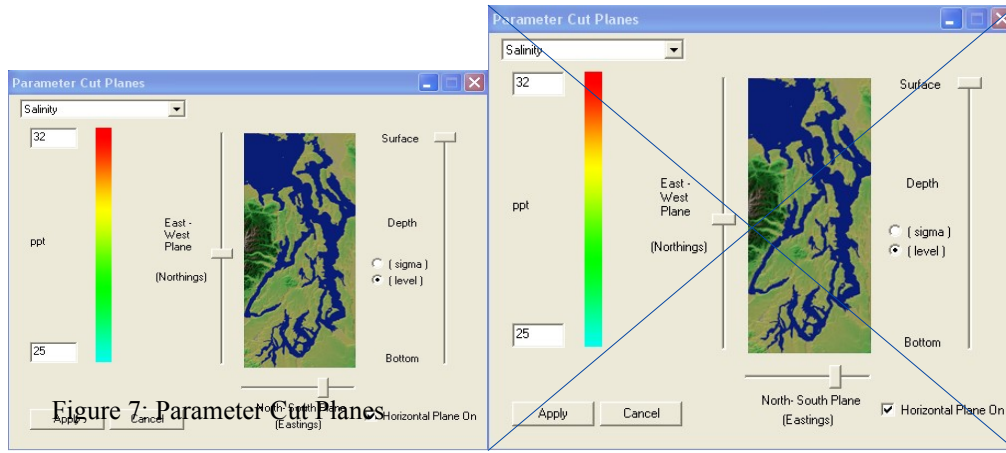


Figure 7: Parameter Cut Planes