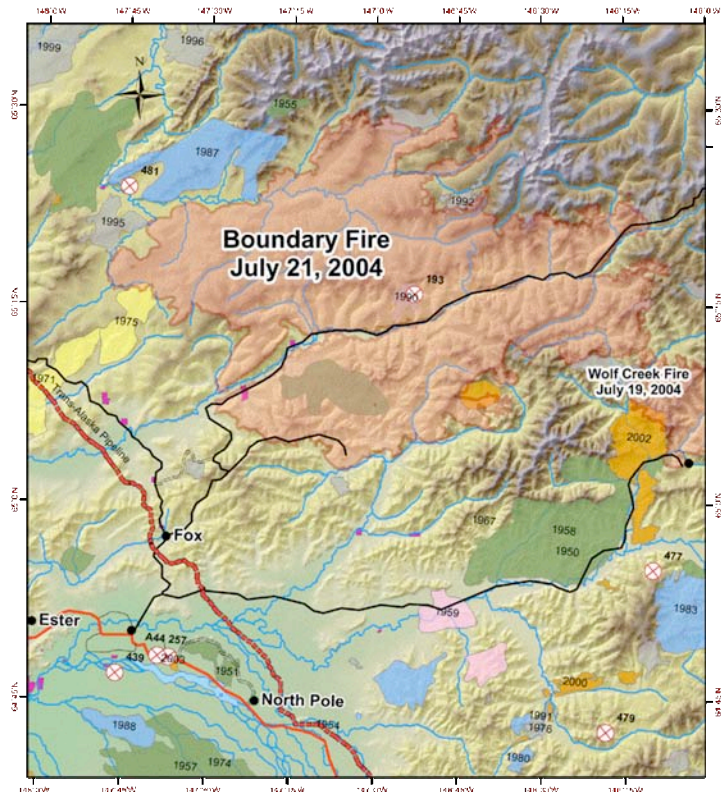


### Boundary Fire (# 193) Area Fire History



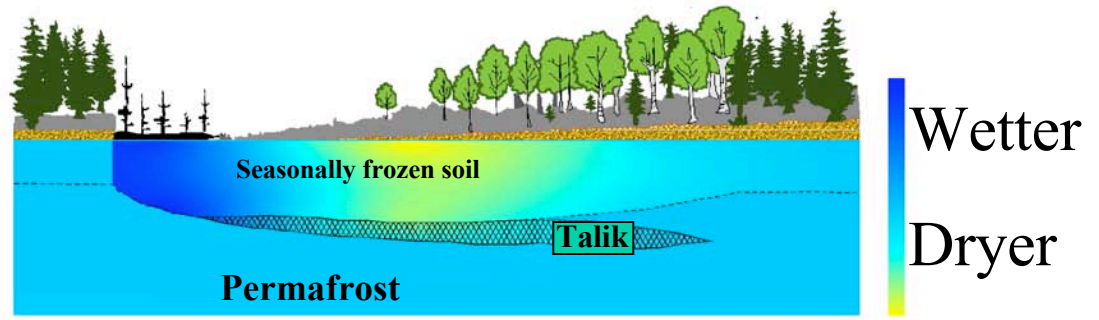
- |                     |                      |                       |
|---------------------|----------------------|-----------------------|
| <b>Legend</b>       |                      |                       |
| <b>Fire History</b> | <b>Shaded Relief</b> | <b>Roads</b>          |
| YEAR                | High: 6187           | Primary Road          |
| 1950 - 1959         | Meters               | Secondary Road        |
| 1960 - 1969         | Low: 0               | Light Duty Road       |
| 1970 - 1979         |                      | Unimproved Road       |
| 1980 - 1989         |                      | Trans-Alaska Pipeline |
| 1990 - 1999         |                      | Rivers                |
| 2000 - 2003         |                      |                       |
|                     |                      |                       |

Alaska Fire Service GIS

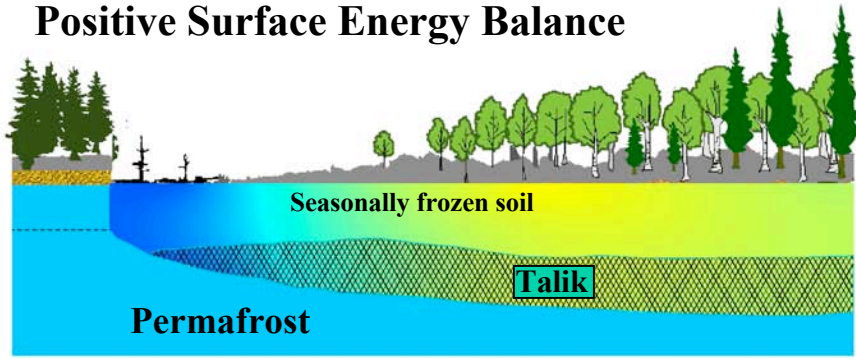
Questions about the information displayed on this map should be directed to: Bureau of Land Management, Alaska Fire Service, P.O. Box 30005, Ft. Wainwright, AK 99703. Phone (907) 356-5567.

Time →

### Negative Surface Energy Balance



### Positive Surface Energy Balance















A blue-tinted photograph of an Arctic landscape. In the foreground, there is a snow-covered ground. In the middle ground, a research station or icebreaker is visible, featuring a tall mast with various instruments and a small cabin. The background shows a range of snow-capped mountains under a cloudy sky.

## **Educational Background:**

**Hydrology and Soil Chemistry and Physics**

## **Primary Interests**

**Understanding the interdependence of arctic hydrology and ecosystem processes**

**Critically Important Question that we must address:**

**What are the non-linear or threshold changes that the Arctic System will experience and how will those reverberate through the environment and over what time scale**