such as tarballs

•To obtain preliminary information to help evaluate the need for more comprehensive studies

Parameters

|  |  |
| --- | --- |
| • The extent and abundance of stranded, dead, or moribund organisms | • Abundance or percent cover of certain oiling types (e.g., tarballs) |

Equipment

|  |  |
| --- | --- |
| • site markers (appropriate for substrate type)  • surveying flags, tape  • 30 m fiberglass tape measure, marked in cm  • quadrats (1.0, 0.25, and 0.063 m2)  • GPS  • compass  • hand counter  • meter stick, rulers  • identification charts/guides  • field notebook (water-proof paper)  • pencils, waterproof pens, markers | • percentage estimation charts  • shoreline oil terminology code sheet  • standardized data sheets (waterproof)  • 35 mm camera, video camera  • slide and print film, video tapes  • photo scales, photo log forms  • specimen sample bags/jars, cooler and ice  • waterproof labels  • chain of custody forms and labels |

# Methods

•Conduct overflights within two-hours of low tide (before or after), to determine the extent of visible contamination and stranding of biota. Use USGS 7.5 minute topographic maps, vertical aerial photographs, or other detailed maps to record observations. Record the:

- locations and approximate lengths of oiled shoreline segments

- approximate width and degree of oiling along different segments of shoreline

- evidence of stranding or mortality events (bodies, gulls feeding)

- presence or location of debris or wrack accumulations (where biota might also accumulate)

-features which appear to affect the pattern of oil/wrack/biota deposition along the shoreline, such as shoreline orientation or the presence of offshore rocks which refract waves

- shoreline access points

- all photographs taken

•Conduct a preliminary shoreline survey. Divide the impact area up into distinct shoreline segments using an initial classification system based on degree of oiling or relative rate of biota stranding. Develop a segment numbering system.

•For each shoreline segment, focus initially on documenting obvious impacts, delineating areas according to the relative degree of oiling/biota stranding, and determining potential locations for more detailed surveys. Record the locations of survey sites actually visited on a basemap and with a GPS. Field observations and descriptions for each shoreline segment should include the:

- shoreline segment number, date, time, weather conditions, tide level, and names of observers

- physical setting (shoreline orientation, exposure to wave energy and tidal currents, wind, potential for burial by sediment accumulation)

- shoreline habitat type

- dominant species or types of biota present

- presence of stranded dead or moribund animals

- extent and degree of shoreline oiling (use shoreline oil terminology codes and % cover charts)

- type or degree of shoreline cleanup performed (particularly note removal of stranded biota)

•If significant strandings