**RECEIVER**

- Single
  - A. Surface source - receiver (null)
  - B. Deep source - deep receiver
  - C. Deep source - surface receiver (null)
- Transducer
  - Single transducer
    - KHz variable by circuitry
    - A, B, C - as above
- Array(s)
  - A, B, C as above
  - Deep tamed vehicles

**SUMMARY: SEABED SEISMIC SYSTEMS**

**Source - Trade Name or Manufacturer, etc.**

- **12 kHz**
  - Edo Usg et al (Edo Western)
  - Edo Deepmore Vehicle
    - ORE 'Transnav' - multi-freq. system
- **7 kHz**
  - Datasyne deep sound source & variations
- **5 kHz**
  - ORE 3.5 - 7.0 system
- **3.5 kHz**
  - Edo 'Hi PACT' & other systems
  - Hydroscan
    - Klein Associates
  - Sos-26; Triss
    - Others
    - Hydroscan (Klein Associates)
    - Edo Hi PACT
    - Raytheon CSPI & others
- **2.5 kHz**
- **1.5 kHz**
  - Edo deepmore vehicle
  - No data
  - Pulsed 'broadband'
    - Huntec Hydrosonde

**Effective Use in Oceanic Depths**

- Surface & uppermost sedimentary section 1m - 2100m
  - Resolutions of 15-75 cm obtainable using 0.2, 0.1 m/sec pulse
  - Layer spacings of 1.5 - 4m
- No real data
- Sedimentary section, 1m - 200 or more
  - Surface not so well defined as with higher frequencies

**Ground-Borne Arrays**

- 'Single' or multichannel
- 100-200 ft to 3 km long
- Various configurations dependent upon data desired and signal processing (enhancement) to be performed
  - A. Single ship
  - B. Two ship (or vehicle)
    - Fixed source - moving rcvr
    - Fixed rcvr - moving source
  - Bottom mounted receivers
    - Obh (hydophone)
    - Obw (seismograph)
  - Geophones

**Explosives**

- Various classes
  - Fuse fired, 5# & up, depth of shot control by fuse length & burn rate
  - Numerous commercial firms

**Modified for increased effectiveness**

- 'High resolution' sources - velocity - Broomstick IV - Davis Explosives
- Aquasens - Aquaflex seismic cord
- Flexoitr - case shooting
- Maxipulse - shot modification

**EDF (France)**