SHARKS
Classification

- Cartilaginous fish
- Ancient class – Chondrichyes
- About 370 species worldwide
They must be doing something right...
- Electroreception
- Feel
- Hearing
- Smell
- Sight
Mediterranean sharks

**FAUNAL SYNOPSIS, August 1997**

<table>
<thead>
<tr>
<th>Order</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order Hexanchiformes</td>
<td>3</td>
</tr>
<tr>
<td>Order Squaliformes</td>
<td>11</td>
</tr>
<tr>
<td>Order Squatiniformes</td>
<td>3</td>
</tr>
<tr>
<td>Order Lamniformes</td>
<td>9</td>
</tr>
<tr>
<td>Order Carcharhiniformes</td>
<td>21</td>
</tr>
<tr>
<td><strong>CONFIRMED TOTAL:</strong></td>
<td><strong>47</strong></td>
</tr>
<tr>
<td>Unconfirmed</td>
<td>6</td>
</tr>
<tr>
<td><strong>Possible Total:</strong></td>
<td><strong>53</strong></td>
</tr>
<tr>
<td>Species exceeding 300cm TL</td>
<td>16</td>
</tr>
<tr>
<td>Species potentially dangerous</td>
<td>15</td>
</tr>
</tbody>
</table>

NGO capacity building for the implementation of Natura 2000 priority actions
Blacktip reef shark
(*Carcharhinus melanopterus*)
Blue shark (*Prionace glauca*)
Smooth hammerhead
(*Sphyrrna zygaena*)
Angelshark
(Squatina squatina)
Bluntnose six-gill shark
(*Hexanus griseus*)
Cookie cutter shark
(Isistius brasiliensis)
Shortfin mako (*Isurus oxyrinchus*)
Sandtiger shark
(*Carcharias taurus*)
Basking shark (*Cetorhinus maximus*)
Thresher shark 
(*Alopias vulpinus*)
Great white shark

(*Carcharodon carcharias*)
NGO capacity building for the implementation of Natura 2000 priority actions
NGO capacity building for the implementation of Natura 2000 priority actions

"Don't eat the hard bit on its back, they make you fart!"

"Suddenly terror struck, he'd never seen a naked woman before"
Types of shark attacks

- Hit & run
- Sneak attack
- Bump & bite
OVERVIEW, MEDSAF RECORDS FROM 1890 - 2003

(A) Unprovoked Injurious Interactions with Swimmers / Divers
N(incidents)=33; N (victims)=36, Fatal=18 (50%); annual rate: 0.29p/a

• Latest Injurious Interaction; swimmers: 03 September 1993 at 08.00hrs
  Location: Playa de les Arenes, Valencia (Catalonia), Costa Blanca, Spain.

• Latest Fatal Interaction: 02 February 1989 at 10.30hrs
  Location: Golfo di Baratti, near Piombino (Tuscany), Italy.
So if something does go for you…

Species confirmable, or reliably attributable, as implicated in above cases:

White shark: N=37  (58.7%)
Blue shark: N=3 (4.8%)
Bluntnose sixgill: N=1  (1.6%)
Totals by Country (confirmed incidents only)
(NB: Revised 21-6-2003; Greece)

WESTERN ITALY & SICILY: 25 (Boats=9)
Latest record: 30 July 1991, Non-Fatal, Santa Margherita Ligure (Liguria)

ADRIATIC ITALY: 8 (Boats=1)
Latest record: 22 August 1988, Non-Fatal, Ippocampo (Manfredonia)

GREECE: 5 (Boats=0)
Latest record: (summer) 1981, Non-Fatal, Pagastikos Kolpos, near Volos

CROATIA: 5 (Boats=1)
Latest record: 10 August 1974, Fatal, Omis

MALTA: 4 (Boats=2)
Latest record: 20 July 1956, Fatal, Il-Munxar (St Thomas Bay)

LEBANON: 3 (Boats = 0)
Latest Record: (details to follow)

EGYPT: 3 (Boats=0)
Latest record: 8 August 1899, Non-Fatal, Port Said

SPAIN: 3 (Boats=1)
Latest record: 3 September 1993, Non-Fatal, Valencia (Catalonia)

TUNISIA: 3 (Boats=0)
Latest record: June 1976, Non-Fatal, Bechateur (near Bizerte)

FRANCE: 2 (Boats=0)
Latest record: August 1986, Non-Fatal, Gruissan (Gulf of Lyons)* (NB -based on media report)

ISRAEL: 1 (Boats=0)
Latest record: 5 February 1945, Non-Fatal, Tel Aviv

TURKEY: 1 (Boats=1)
Latest record: 1930, Non-Fatal, Santo Stefano (Bosphorus)
European Attacks since 1907

Italy 14 (4)
Greece 9 (8)
Croatia 5 (4)
Sex of Victim

WORLDWIDE
(N=248)

Female 5%
Unknown 2%
Male 93%
### Relative Risk – Injuries for one year in NY city

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<thead>
<tr>
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<tbody>
<tr>
<td>Dog bites human</td>
<td>12,656</td>
<td>10,593</td>
<td>9,809</td>
<td>8,870</td>
<td>8,064</td>
</tr>
<tr>
<td>Human bites human</td>
<td>*</td>
<td>1,589</td>
<td>1,591</td>
<td>1,572</td>
<td>1,587</td>
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<tr>
<td>Cat bites human</td>
<td>826</td>
<td>*</td>
<td>879</td>
<td>*</td>
<td>802</td>
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<tr>
<td>Wild rat bites human</td>
<td>60</td>
<td>*</td>
<td>311</td>
<td>*</td>
<td>291</td>
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<tr>
<td>Squirrel bites human</td>
<td>81</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>95</td>
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<tr>
<td>Hamster bites human</td>
<td>52</td>
<td>*</td>
<td>*</td>
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<tr>
<td>Rabbit bites human</td>
<td>37</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Raccoon bites human</td>
<td>18</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>11</td>
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<tr>
<td>Horse bites human</td>
<td>18</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
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<tr>
<td>Gerbil bites human</td>
<td>17</td>
<td>*</td>
<td>12</td>
<td>*</td>
<td>*</td>
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<tr>
<td><strong>Shark injuries in U.S.A.</strong></td>
<td><strong>12</strong></td>
<td><strong>14</strong></td>
<td><strong>12</strong></td>
<td><strong>6</strong></td>
<td><strong>13</strong></td>
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