Stiletto - the future of naval warfare The U.S. military has developed a \$6 million experimental vessel combining new materials, state-of-the-art network communications and a revolutionary hull design as part of their vision for a faster, more adaptable fleet Lightweight carbon-**M80 Stiletto** Length: 24m, beam: 12m, draft: 1m fibre epoxy hull 40 11m, rigid hull Four 1,650hp Three-man crew. inflatable boat Caterpillar engines plus up to 12 SEAL - top speed over commandos 50 knots Unmanned aerial vehicle launched and monitored from craft M-hull design can be adapted to larger vessels Ship by combining two or more hulls design M-hull surface effect gives low radar signature 1. Central Displacement Section: Fine entry, deep bow, with broad shallow exit at stern. Water displaced into tunnels at either side Bow wave 2. Planing 3. Rigid skirts: Sends bow wave Tunnels: High above static water line at front spiralling through tunnels. Designed to capture air and bow wave for to control pressure gradient under hydrodynamic and aerodynamic lift vessel for smoother ride Bow wave spiral forced into decreasing volume of tunnel, creating vertical lift and reducing drag for areater speed © GRAPHIC NEWS Water line Vertical lift Source: M Ship Company