Japan sets sail on maiden Venus mission In a first for the country's space agency, Japan is sending two spacecraft to Earth's nearest **VENUS** planetary neighbour Atmosphere: Akatsuki Over 95% CO₂ (Venus Climate Orbiter) Average surface Two-year mission to temperature: resolve mysteries of 460°C Venusian atmosphere. Cameras will probe dense clouds of sulphuric acid which "super-rotate" 60 times faster than planet LAUNCH VEHICLE H-IIA rocket launches both spacecraft **IKAROS Technology demonstration** mission launched in direction of Venus. Will attempt to become first spacecraft to use solar sails in deep space Sources: JAXA, Nature 20m-wide sail unfurls in space using force H-IIA of craft's rotation. Thickness less than single human hair "Thin-film" solar cells generate electricity Rocket Craft propelled by momentum of height photons (light) from sun bouncing off tiny 53m mirrors coating sail. In theory, speeds of 100km/sec could be achieved in six months IKAROS = Interplanetary Kite-craft Accelerated by Radiation Of the Sun © GRAPHIC NEWS