

LA PAGINA ASTROMETRICA

di Michele T. Mazzucato

Tutto ciò che può essere utile per la ricerca dei corpi minori del Sistema Solare.
- documento aggiornato al 18 dicembre 2008 -

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SURVEY

NEO Survey CSS (Catalina Sky Survey)

<http://www.lpl.arizona.edu/css/>

NEO Survey LINEAR (Lincoln Near Earth Asteroid Research)

<http://www.ll.mit.edu/LINEAR>

NEO Survey LONEOS (Lowell Observatory Near-Earth Object Search)

<http://asteroid.lowell.edu/asteroid/loneos/loneos.html>

NEO Survey NEAT (Near-Earth Asteroid Tracking)

<http://neat.jpl.nasa.gov/>

NEO Survey PAN-STARRS (PANoramic Survey Telescope & Rapid Response System)

<http://pan-starrs.ifa.hawaii.edu/public/home.html#>

NEO Survey SPACEWATCH

<http://www.lpl.arizona.edu/spacewatch>

NEO Survey SSS (Siding Spring Survey)

<http://msowww.anu.edu.au/~rnm/index.htm>

GUIDE

 GUIDA ALLA OSSERVAZIONE DEGLI ASTEROIDI (Sergio Foglia)

<http://asteroidi.uai.it/manuale.pdf>

 GUIDE TO MINOR BODY ASTROMETRY (Minor Planet Center)

<http://cfa-www.harvard.edu/iau/info/Astrometry.html>

SOFTWARE

ASTROMETRICA (Herbert Raab)

<http://www.astrometrica.at/>

FIND ORB (Project Pluto)

<http://www.projectpluto.com/ifindorb.htm>

MINOR PLANET SOFTWARE (Sergio Foglia)

<http://asteroidi.uai.it/software.htm>

MPCOrb (Julio Castellano)

<http://astrosurf.com/orodeno/Programas/MPCOrb/mpcorb.htm>

UTILITY & FILES

file ASTORB.DAT

<ftp://ftp.lowell.edu/pub/elgb/astorb.dat.gz>

file MPCORB.DAT, MPCORBcr.DAT e COMET.DAT

<http://mpcorb.astro.cz/>

catalogo USNO-A2.0

<http://asteroid.lowell.edu/cgi-bin/webnet>

<ftp://ftp.nofs.navy.mil/usnoa/>

<http://archive.eso.org/skycat/servers/usnoa>

catalogo USNO-SA2.0

<ftp://ftp.nofs.navy.mil/usnosa/>

sincronizzazione DIMENSION 4

<http://www.thinkman.com/dimension4/>

CALCOLO MAGNITUDINE ASSOLUTA E DIMENSIONI ASTEROIDI [foglio excel zippato] (Claudio Elidoro)

<http://www.geocities.com/elidoro/news/magnitudine.zip>

CALCULATION OF RESIDUALS OF ASTEROID POSITIONS

<http://www.fitsblink.net/residuals/>

COMPUTING CRATER SIZE FROM PROJECTILE DIAMETER

http://www.lpl.arizona.edu/tekton/crater_c.html

CONVERSION OF ABSOLUTE MAGNITUDE TO DIAMETER FOR MINOR PLANETS (Dan Bruton)

<http://www.physics.sfasu.edu/astro/asteroids/sizemagnitude.html>

<http://www.ccaf.it/Pages/diametro.html>

DIGITIZED SKY SURVEY (DSS) PLATE FINDER

http://archive.stsci.edu/cgi-bin/dss_plate_finder

EARTH IMPACT EFFECTS PROGRAM

<http://www.lpl.arizona.edu/impacteffects/>

STSCI DIGITIZED SKY SURVEY

http://archive.stsci.edu/cgi-bin/dss_form

VÄISÄLÄ METHOD OF ORBIT DETERMINATION EXCEL WORKSHEET (Dan Bruton)

<http://www.physics.sfasu.edu/astro/asteroids/vaisala4.xls>

SITI

ASTEROID/COMET CONNECTION (Consolidated Risk Table)

<http://www.hohmanntransfer.com/news.htm>

ASTEROID AND COMET IMPACT HAZARDS

<http://impact.arc.nasa.gov/>

ASTERIODS AND REMOTE PLANETS SECTION OF THE BRITISH ASTRONOMICAL ASSOCIATION (BAA)

<http://www.britastro.org/asteroids/>

ASTERIODS DYNAMIC SITE (ASTDYS) (University of Pisa)

<http://hamilton.dm.unipi.it/astdys/>

- Object List <http://hamilton.dm.unipi.it/astdys/index.php?pc=1.0.0>

ASTERIOD OBSERVING SERVICES (Lowell Observatory)

<http://asteroid.lowell.edu/>

- Asteroid Ephemeris ASTEPH <http://asteroid.lowell.edu/cgi-bin/asteph>

- Asteroid Observation Chart Builder <http://asteroid.lowell.edu/cgi-bin/obs>

- Asteroid Plot ASTPLOT <http://asteroid.lowell.edu/cgi-bin/astplot>

- Astronomical Reference Network REFNET <http://asteroid.lowell.edu/cgi-bin/webnet>

- Finder Chart for Asteroids ASTFINDER <http://asteroid.lowell.edu/cgi-bin/astfinder>

- Minimum Orbital Intersection Distance MOID <http://www.lowell.edu/users/elgb/moid.html>

- Sky Coverage of NEOSearches <http://asteroid.lowell.edu/cgi-bin/koehn/coverage>

ASTERIOD RADAR RESEARCH

<http://echo.jpl.nasa.gov/>

ASTERIODS WITH SATELLITES

<http://www.johnstonsarchive.net/astro/asteroidmoons.html>

COMMITTEE ON SMALL BODY NOMENCLATURE (CSBN – IAU Division III)

<http://www.ss.astro.umd.edu/IAU/csbn/>

EUROPEAN ASTERIOD RESEARCH NODE (EARN)

<http://earn.dlr.de/>

KUIPER BELT PAGE (David Jewitt)

<http://www.ifa.hawaii.edu/~jewitt/kb.html>

MINOR PLANET CENTER (MPC)

<http://cfa-www.harvard.edu/iau/mpc.html>

- Customize the Observable Object Lists <http://cfa-www.harvard.edu/iau/lists/Customize.html>

- Discovery circumstances: numbered Minor Planets 1 <http://cfa-www.harvard.edu/iau/lists/NumberedMPs.html>

- Discovery circumstances: numbered Minor Planets 2 <http://cfa-www.harvard.edu/iau/lists/NumberedMPs.txt>

- Ephemerides and Orbital Elements <http://cfa-www.harvard.edu/iau/Ephemerides/index.html>

- List of Observatory Codes <http://cfa-www.harvard.edu/iau/lists/ObsCodes.html>

- Lists and Plots: Minor Planets <http://cfa-www.harvard.edu/iau/lists/MPLists.html>

- Minor Planet Checker <http://scully.harvard.edu/~cgi/CheckMP>

- Minor Planet Designations <http://cfa-www.harvard.edu/iau/MPDes.html>

- Minor Planet Names: Alphabetical List <http://cfa-www.harvard.edu/iau/lists/MPNames.html>

- Minor Planet & Comet Ephemeris Service <http://cfa-www.harvard.edu/iau/MPEph/MPEph.html>

- NEO Confirmation Page <http://cfa-www.harvard.edu/iau/NEO/ToConfirm.html>

- New Object Ephemeris Generator <http://cfa-www.harvard.edu/iau/MPEph/NewObjEphems.html>

- Sky Coverage Plots <http://scully.harvard.edu/~cgi/SkyCoverage.html>

- WEB Access to MPC/CBAT Computer Services <http://cfa-www.harvard.edu/iau/services/WebCSAccess.html>

MINOR PLANET SECTION OF THE ASSOCIATION OF LUNAR & PLANETARY OBSERVERS (ALPO)
<http://www.alpo-astronomy.org/minor>

MINOR PLANETS & COMETS SECTIONS OF THE UAI
<http://asteroidi.uai.it/>
<http://comete.uai.it/>

NEO INFORMATION CENTRE
<http://www.near-earth-objects.co.uk/>

NEAR EARTH OBJECT DYNAMIC SITE (NEODYS) (University of Pisa)
<http://131.114.72.13/cgi-bin/neodys/neoibo> oppure <http://newton.dm.unipi.it/cgi-bin/neodys/neoibo>

NEAR EARTH OBJECT PROGRAM (JPL-NASA)
<http://neo.jpl.nasa.gov/>
- Orbit Diagrams <http://neo.jpl.nasa.gov/orbits/>
- Palermo Scale <http://neo.jpl.nasa.gov/risk/doc/palermo.html>
- Torino Scale http://neo.jpl.nasa.gov/torino_scale.html

SOLAR SYSTEM DYNAMICS
<http://ssd.jpl.nasa.gov/>
- Asteroid and Comet Spacecraft Missions <http://ssd.jpl.nasa.gov/?targets>
- JPL Small-Body Database Browser <http://ssd.jpl.nasa.gov/sbdb.cgi>
- Radar Astrometry <http://ssd.jpl.nasa.gov/?radar>
- Small Bodies What's Observable <http://ssd.jpl.nasa.gov/sbwobs.cgi>

SPACEGUARD IT
<http://spaceguard.iasf-roma.inaf.it/>

SPACEGUARD UK
<http://www.spaceguarduk.com/>

SPACEWATCH PROJECT (Lunar and Planetary Laboratory, University of Arizona)
<http://spacewatch.lpl.arizona.edu/>

YOUR SKY OBJECT CATALOGUE (John Walker)
- Asteroids by Number http://www.fourmilab.ch/yoursky/catalogues/asteroid_numbers.html
- Asteroids by Name http://www.fourmilab.ch/yoursky/catalogues/asteroid_names.html
- Periodic Comets http://www.fourmilab.ch/yoursky/catalogues/periodic_comets.html

OCCULTAZIONI ASTEROIDALI

ASTEROIDAL OCCULTATION (Europe, North Africa and Middle East)

<http://mpocc.astro.cz/>

ASTEROID OCCULTATION UPDATES (Steve Preston)

<http://www.asteroidoccultation.com/>

EUROPEAN OBSERVE AN ASTEROID OCCULTATION EAON

<http://astrosurf.com/eaon/>



HOW TO OBSERVE AN ASTEROID OCCULTATION (Paul Maley)

<http://www.eclipsetours.com/occultationa.html>



OSSERVARE LE OCCULTAZIONI (Paolo Costa)

<http://occultazioni.uai.it/doc/MANUALE.pdf>

software OCCULT (Dave Herald)

<http://www.lunar-occultations.com/iota/occult3.htm>

FOTOMETRIA ASTEROIDALE



A GUIDE TO MINOR PLANET PHOTOMETRY (Brian Warner)

<http://minorplanetobserver.com/astlc/PhotometryGuide.htm>



COURBE PHOTOMETRIQUE SUR ASTEROÏDE OU ÉTOILE VARIABLE (Laurent Bernasconi)

<http://www.astrosurf.com/bernasconi/CourPhot/Intro.htm>


OSSERVATORI ITALIANI (con scoperte di asteroidi)

| MPC code | denominazione | indirizzo WEB |
|----------|--|--|
| 22 | Pino Torinese (Torino) | http://www.to.astro.it/astrometry |
| 27 | Brera Observatory (Milano) | http://www.merate.mi.astro.it/docM/OAB/oab.html |
| 37 | Collurania Observatory (Teramo) | http://www.te.astro.it |
| 43 | Asiago Astrophysical Observatory (Vicenza) | http://www.oapd.inaf.it/asiago |
| 44 | Capodimonte (Napoli) | http://www.na.astro.it/ |
| 98 | Cima Ekar (Vicenza) | http://www.oapd.inaf.it/asiago |
| 104 | San Marcello Pistoiese (Pistoia) | http://www.gamp-pt.net/link5.htm |
| 107 | Cavezzo (Modena) | http://www.astrocavezzo.it |
| 108 | Montelupo Fiorentino (Firenze) | http://www.gram.tosnet.it/main.php |
| 112 | Pleiade Observatory (Verona) | |
| 126 | Monte Viseggi (La Spezia) | http://www.astrofilispezzini.org |
| 147 | Suno (Novara) | http://www.apan.it/piantini/index.htm |
| 154 | Cortina (Belluno) | http://www.cortinastelle.it/ |
| 157 | Frasso Sabino (Rieti) | http://www.ara.roma.it/ita/oss/oss_frame.htm |
| 158 | Promiod (Aosta) | |
| 159 | Monte Agliale (Lucca) | http://www.oama.it http://www.comune.lucca.it/ASS_VOL/ILRA/asteroid.htm |
| 201 | Jonathan B. Postel Observatory (Aosta) | |
| 204 | Schiaparelli Observatory (Varese) | http://www.astrogeo.va.it/astronom/pianeti/near/asteroid.htm |
| 468 | Campo Catino (Frosinone) | http://www.campocatinobservatory.org/ |
| 470 | Ceccano (Frosinone) | http://www.bellatrixobservatory.org/italia.html |
| 473 | Remanzacco (Udine) | http://www.afamweb.com/ |
| 531 | Collegio Romano Observatory (Roma) | http://www.mporzio.astro.it/ |
| 535 | Palermo | http://www.astroa.unipa.it |
| 552 | San Vittore (Bologna) | http://www.gizarastro.it/SanVittore.html |
| 560 | Madonna di Dossobuono (Verona) | |
| 565 | Bassano Bresciano (Brescia) | http://www.ulisse.bs.it/osservatorio/index.htm |
| 567 | Chions (Pordenone) | |
| 571 | Cavriana (Mantova) | |
| 587 | Sormano (Como) | http://www.brera.mi.astro.it/sormano |
| 589 | Santa Lucia Stroncone (Terni) | http://www.mpc589.com |
| 595 | Farra d'Isonzo (Gorizia) | http://www.ccaf.it/Pages/astrometria.html |
| 596 | Colleverde di Guidonia (Roma) | |
| 598 | Loiano (Bologna) | http://www.bo.astro.it |
| 599 | Campo Imperatore (L'Aquila) | http://www.mporzio.astro.it/ |
| 609 | Polino (Terni) | |
| 610 | Pianoro (Bologna) | http://web.tiscali.it/pianoro_observatory http://aac.sunrise.it/vittorio-goretti.htm |
| 632 | San Polo a Mosciano (Firenze) | http://www.geocities.com/aaf1958/datitec.htm |
| A55 | Vallemare di Borbona (Rieti) | http://digilander.libero.it/astroborbona |
| B40 | Skylive Observatory (Catania) | http://www.skylive.it/skylive-new/index.php |

VIDEO & IMMAGINI

 GLI ASTEROIDI E LA TERRA (video RAI Educational)
http://www.educational.rai.it/medita/scheda.asp?VID_ID=3520

 COMETE, METEORE E ASTEROIDI (video)
<http://www.playj.net/28/11/2008/comete-meteore-e-asteroidi/>

 DOCUMENTARI (video RAI - Explora la tv delle scienze)
ARMAGEDDON
http://www.explora.rai.it/video/Video.asp?Vid_Id=996
ASTEROIDI
http://www.explora.rai.it/video/Video.asp?Vid_Id=246
COMETE
http://www.explora.rai.it/video/Video.asp?Vid_Id=850
METEORE, METEORITI E ASTEROIDI
http://www.explora.rai.it/video/Video.asp?Vid_Id=847

GAZETTEER OF PLANETARY NOMENCLATURE: ASTEROIDS
<http://planetarynames.wr.usgs.gov/jsp/SystemSearch2.jsp?System=Asteroid%20Belt>

NSSDC PHOTO GALLERY ASTEROIDS & COMETS
http://nssdc.gsfc.nasa.gov/photo_gallery/photogallery-asteroids.html
http://nssdc.gsfc.nasa.gov/photo_gallery/photogallery-comets.html


PLANETARY PHOTO JOURNAL (SMALL BODIES)
<http://photojournal.jpl.nasa.gov/target/Other>

THE PEEKSKILL FIREBALL (AVI, ~1.6 Mb - evento del 9 ottobre 1992)
http://starchild.gsfc.nasa.gov/Videos/StarChild/solar_system/fireball.avi

METEORITE EN ACTION (Bolide en Image)
<http://fireball.meteorite.free.fr/>

ARTICOLI

 A CACCIA DI ASTEROIDI DAL GIARDINO DI CASA (Dennis di Cicco – a cura di Mario Farina)
<http://www.mclink.it/mclink/astro/news/fnews/hunting.htm>

 ASTEROIDI (Albino Carbognani)
<http://www.fis.unipr.it/~albino/asteroidi.html>

 ASTEROIDI (Federico Tosi)
<http://www.astroara.org/meteo/report/pdf/Asteroidi.pdf>

 ASTEROID (The Physics Encyclopedia)
<http://www.physicsdaily.com/physics/Asteroid>

 ASTROMETRIA & DETERMINAZIONE ORBITALE (Mario Carpino)
<http://www.euresis.org/emme/carpino21.pdf>

 AVVISTAMENTI E IMPATTI DI CORPI CELESTI
<http://www.pd.astro.it/meteoriti.html/indice.htm>


 I CORPI MINORI DEL SISTEMA SOLARE (Claudio Elidoro)
http://www.geocities.com/elidoro/corpiminori/cm_intro.html


 IMPATTO COSMICO: OLTRE LA FANTASCIENZA... (Claudio Elidoro)
http://www.rccr.cremona.it/monografie/impatto/im_indice.html#indice

 LA MECCANICA CELESTE E IL SISTEMA SOLARE (Paola Battaglia)
http://www.astrofilimilano.org/neofiti/dispense/meccanica_celeste.pdf

 LE COSTANTI ASTRODINAMICHE (Giuseppe Matarazzo)
<http://astrodinamica.altervista.org/PDF/costanti.pdf>

 METEORITES AND THEIRS PROPERTIES (David A. Kring)
<http://meteorites.lpl.arizona.edu/>

 A MULTI-CRITERIA ASSESSMENT OF DEFLECTION METHODS FOR DANGEROUS NEOS (J.P.S. Cuartielles, C. Colombo, M. Vasile e G. Radice)
<http://www.aero.gla.ac.uk/Research/SpaceArt/publications/phd/Multi-criteria%20Assessment%20of%20Deflection%20Methods%20for%20Dangerous%20NEOs.Vasile%20et%20al.2006.pdf>

 PLANETARY DEFENSE FROM THE NEAREST 4 LAGRANGIAN POINTS PLUS RFI-FREE RADIOASTRONOMY FROM THE FAR SIDE OF THE MOON: A UNIFIED VISION (Claudio Maccone)
http://www.seti-italia.cnr.it/Pagina%20Articoli/ARTICOLO_MACCONE.pdf

 RISCHI DI IMPATTO DI NEO (Antonietta Russo)
<http://www.astro.unifi.it/did/dott/2006/neo.pdf>

CINEMA

Armageddon (USA, 1998)

<http://www.Cinematografo.It/bancadati/consultazione/schedafilm.jsp?codice=35431&completa=si>
<http://www.fantascienza.com/cinema/armageddon/index.html>
<http://www.imdb.com/title/tt0120591/>

Asteroid (USA, 1997)

<http://www.imdb.com/title/tt0118261/>

Deep Impact (USA, 1998)

<http://www.Cinematografo.It/bancadati/consultazione/schedafilm.jsp?codice=35438&completa=si>
<http://www.imdb.com/title/tt0120647/>

Meteor (USA, 1979)

<http://www.imdb.com/title/tt0079550/>

Night of a Comet (USA, 1984)

<http://www.imdb.com/title/tt0087799/>

The Day the Sky Exploded (Italia-Francia, 1958)

<http://www.imdb.com/title/tt0051951/>

The Monolith Monsters (USA, 1957)

<http://www.fantascienza.com/cinema/meteora-infernale/index.html>
<http://www.imdb.com/title/tt0050720/>

When Worlds Collide (USA, 1951)

<http://www.fantascienza.com/cinema/quando-i-mondi-si-scontrano/index.html>
<http://www.imdb.com/title/tt0044207/>

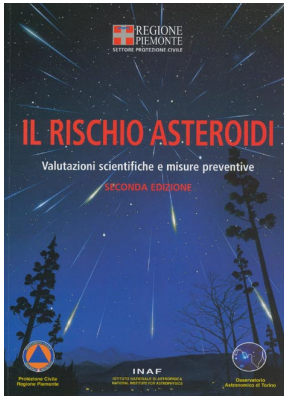
Whithin the Rock (USA, 1996)

<http://www.imdb.com/title/tt0118183/>

Without Warning (USA, 1984)

<http://www.imdb.com/title/tt0111735/>

BIBLIOTECA



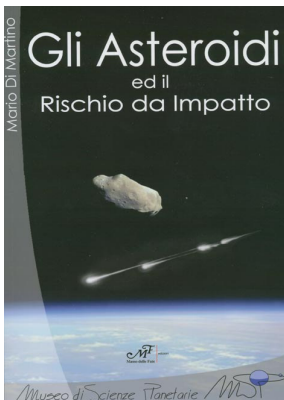
AUTORI VARI
Il rischio asteroidi
Regione Piemonte, 2^a ed. 2005

<http://www.regione.piemonte.it/protciv/pubblicazioni/asteroidi.htm>



ALESSANDRA CELLETTI & ETTORE PEROZZI
Meccanica celeste
CUEN, Napoli 1996

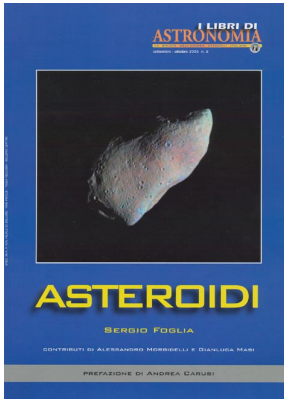
http://www.apan.it/recensione/meccanica_celeste.htm



MARIO DI MARTINO
Gli asteroidi ed il Rischio da Impatto
Masso delle Fate, Prato 2005

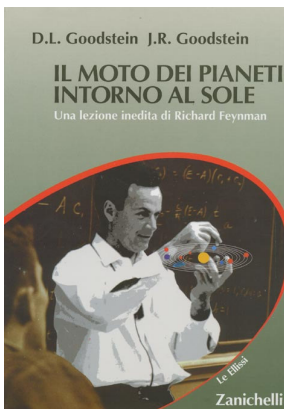
<http://www.cassiopeaonline.it/home.html>





SERGIO FOGLIA
Asteroidi
Astronomia UAI 5/2006

http://www.apan.it/recensione/Foglia_asteroidi.htm

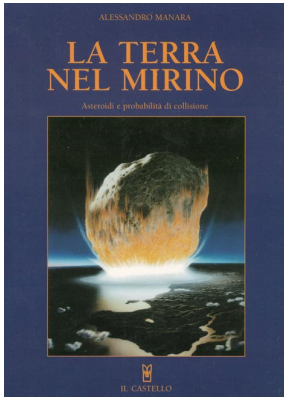


DAVID L. GOODSTEIN & JUDITH R. GOODSTEIN
Il moto dei pianeti intorno al Sole
Zanichelli, Bologna 1997



PAOLO MAFFEI
La cometa di Halley dal passato al presente
Bibl. EST Mondadori, Milano 2^a ed. 1987



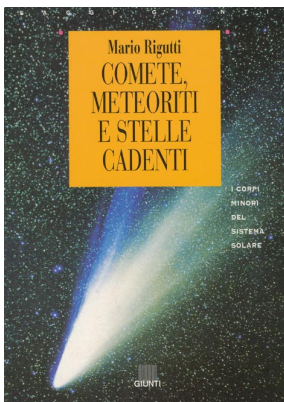


ALESSANDRO MANARA
La Terra nel mirino
Il Castello, Milano 2003

<http://www.coelum.com/index.php?goto=articoli&id=25>



GIANNANTONIO MILANI
Osservare le comete
I quaderni di l'Astronomia, 1999



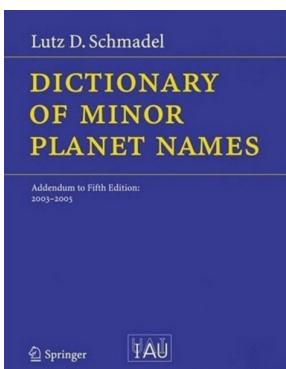
MARIO RIGUTTI
Comete, meteoriti e stelle cadenti
Giunti, Firenze 1997

<http://www.recensionidilibri.it/8809210816>





PIERO TEMPESTI
Il segreti delle comete
Curcio, Roma 1984



LUTZ D. SCHMADEL
Dictionary of Minor Planet names
Springer-Verlag/IAU, 5th ed. 2006

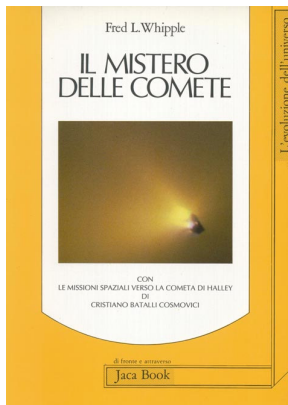


http://dmpn.springer.de/daten/vlite_server_ref.htm



STEFANO VALENTINI
Minor Planets from Italy
Roma 2002



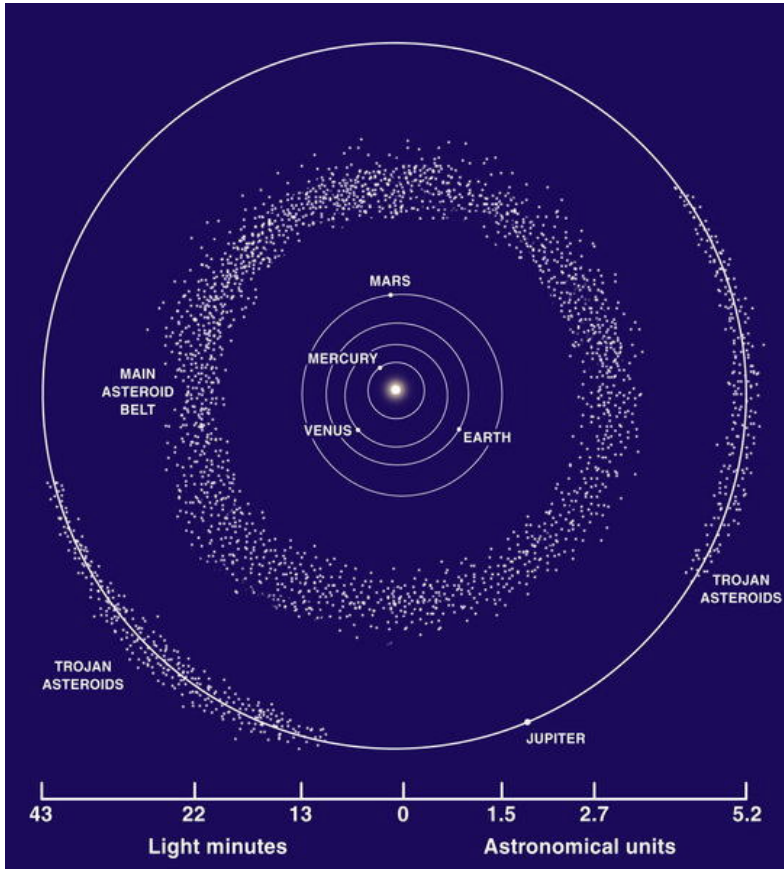


FRED L. WHIPPLE
Il mistero delle comete
Jaca Book, Milano 1991



CD-ROM *I corpi minori del Sistema Solare*, Gallerie del Cielo n. 11, Nuovo Orione, Milano 2002
CD-ROM *Comete !*, Gallerie del Cielo n. 15, Nuovo Orione, Milano 2004

QUALCHE IMMAGINE



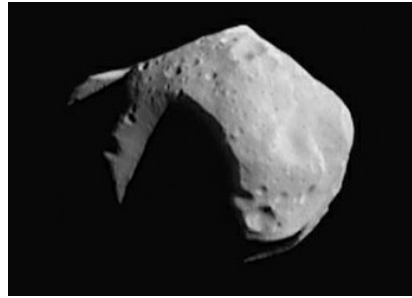
Fascia Principale



Fascia di Kuiper



216 KLEOPATRA (immagine radar)



253 MATHILDE



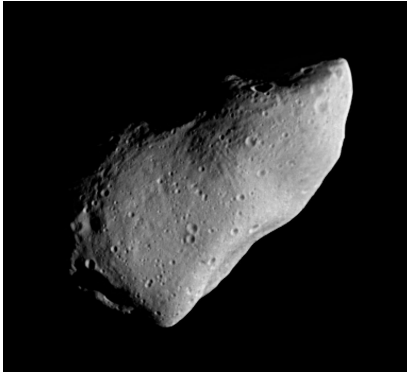
433 EROS



943 IDA & DACTYL



DACTYL



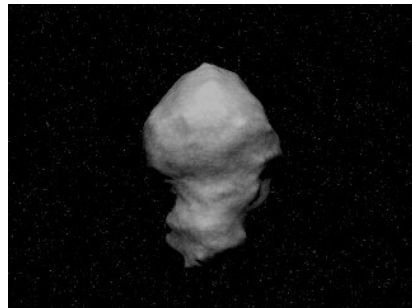
951 GASPRA



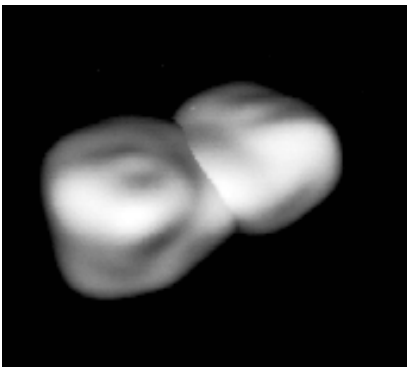
1620 GEOGRAPHOS (immagine radar)



2063 BACCHUS (immagine radar)



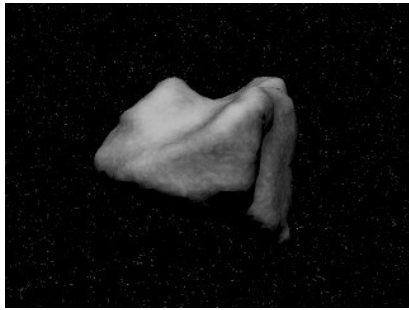
4179 TOUTATIS (immagine radar)



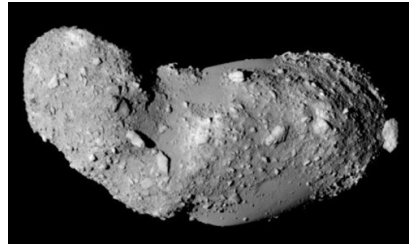
4769 CASTALIA (immagine radar)



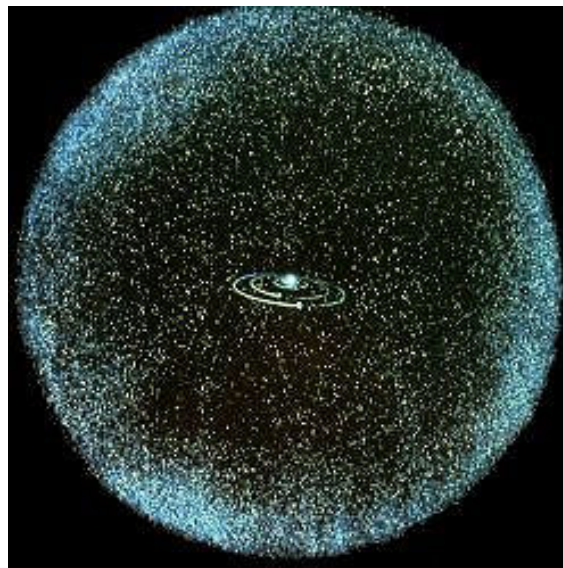
5535 ANNEFRANK



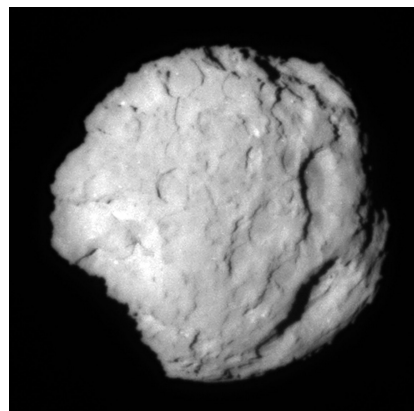
6489 GOLEVKA (immagine radar)



25143 ITOKAWA



Nube di Oort



Nucleo della cometa 81P/ Wild 2
dalle immagini della sonda Stardust (2 gennaio 2004)