

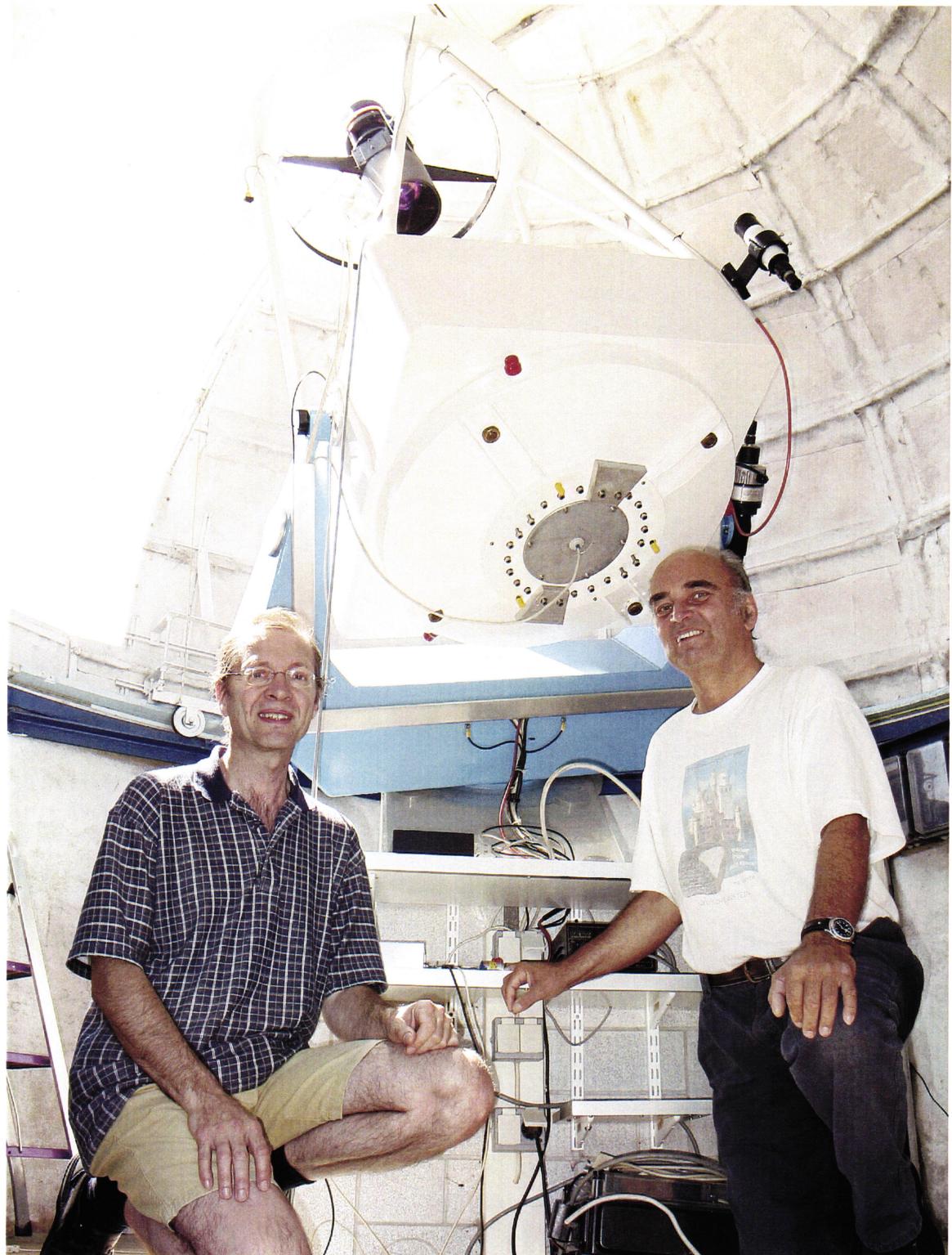
ÖSTERREICHISCHER ASTRONOMISCHER VEREIN

Kleinplanetenbeobachtungen

1979-2003



Erich Meyer



*Die beiden Erbauer und Eigentümer der Privatsternwarte Davidschlag,
Ing. Erich Meyer und Erwin Obermair, vor dem 60cm-Teleskop*

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Kleinplanetenbeobachtungen

1979 bis 2003

Ing. Erich Meyer

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VORWORT

Die vorliegende Schrift ist eine vollständige Dokumentation der herausragenden Beiträge des Autors auf dem Gebiet der Astrometrie in den vergangenen 25 Jahren. Als ein maßgeblicher Baustein für den Erfolg von Ing. Erich Meyer wäre wohl zuerst die Errichtung und der Betrieb der Privatsternwarte in Davidschlag (OÖ), gemeinsam mit E. Obermair, zu nennen. Bereits 1979 entstanden hier die ersten Aufnahmen an einem 30cm Teleskop. Bis Anfang der 90er Jahre setzte man auf photographische Aufnahmen, ausgewertet an einem Messapparat mit handelsüblichen Präzisions-Mikrometerschrauben. Einen Quantensprung stellte dann der Umstieg auf CCD-Technologie im Jahre 1993 dar. Die zu diesem Zeitpunkt bereits länger im Einsatz befindliche Software zur Bildauswertung ‚Astrometrica‘, erstellt durch Dipl.Ing.H.Raab, wurde an die neue Digitaltechnik angepasst. Astrometrica ist heute ein weltweit geschätztes Standardprogramm in der Astrometrie.

Seit 1979 bis heute konnten mit dem beschriebenen Instrumentarium eine Vielzahl hochpräziser Positionen von Kleinplaneten und Kometen gewonnen werden die in erster Linie in den Zirkularen des Minor Planet Center veröffentlicht wurden. Als besonderes Jahr wäre jedenfalls 1996 herauszustreichen. In Davidschlag gelang die Entdeckung von acht ‚neuen‘ Kleinplaneten und in Würdigung dafür wurden Ing.E.Meyer und E.Obermair das silberne Verdienstzeichen der Republik Österreich und Dipl.Ing.H.Raab die Goldene Medaille für Verdienste um die Republik Österreich verliehen. Doch nicht nur national, sondern auch international wurde die Arbeit durch Kleinplanetenbenennungen (7940 Erichmeyer und 9236 Obermair) als außergewöhnlich gewürdigt.

In all den Jahren war Ing. Meyer dem Österreichischen Astronomischen Verein stets verbunden und stellte sein Wissen im Rahmen von Referaten und Artikeln (Seminarpapiere zum Sternfreundeseminar; Sternenbote) gerne zur Verfügung. Schließlich wurde vor rund 5 Jahren das Teleskop in Davidschlag durch ein wesentlich größeres und leistungsfähigeres Instrument ersetzt. Die Pläne zum Bau der Gabelmontierung stammten von Ing.R.Pressberger, dem damaligen technischen Referenten unserer Gesellschaft, die Steuerung basiert auf Plänen und Software von Dr.M.Stoll.

Die wissenschaftlich anerkannte Leistung, an der auch E.Obermair, Dipl.Ing.H.Raab und nicht zuletzt seine Frau und Familie verständnisvollen und dankenswerten Anteil hatten, wäre ohne starkes persönliches Engagement des Autors wohl nicht möglich gewesen. Sie ist umso höher zu veranschlagen, als sie neben einem anspruchsvollen, gänzlich andersgearteten Beruf erbracht wurde.

Unsere Gesellschaft gratuliert dazu mit den besten Wünschen für eine weitere erfolgreiche Tätigkeit.



a.o.Univ.Prof.Dipl.Ing.Dr.Robert Weber

1.Vorsitzender
Österreichischer Astronomischer Verein

Wien, Herbstanfang 2004

Die Privatsternwarte Meyer/Obermair in Davidschlag

Nach einigen Jahren der Beobachtung mit transportablen Teleskopen bauten wir, Erwin Obermair und ich 1978/1979 auf einem gepachteten Grund eine eigene Sternwarte in Davidschlag, in der Region „SternGartl“, etwa 15km nördlich von Linz.
Das Bauwerk wird gekrönt von einer ebenso selbstgebauten Kuppel von 4,5m Durchmesser mit einem 1,2m breiten Beobachtungsspalt.

Die Koordinaten unserer privaten Sternwarte:

Geografische Breite:	48°26'33" Nord
Geografische Länge:	14°16'31" Ost
Höhe über Adria:	815 m

Das Instrumentarium

Nach 20-jährigem Betrieb mit Teleskopen der 300mm-Hauptspiegel-Klasse entschlossen wir uns, ein wesentlich größeres Gerät zu bauen.

Nach reiflicher Überlegung fiel unsere Wahl auf ein Teleskop mit 600 mm Spiegeldurchmesser und einer Öffnung von f/3.3. Vom optischen Prinzip her ist das Gerät ein Newton mit einem Dreifach-Korrektor. Die optischen Komponenten bezogen wir von der Fa. Astro Optik aus Regensburg.

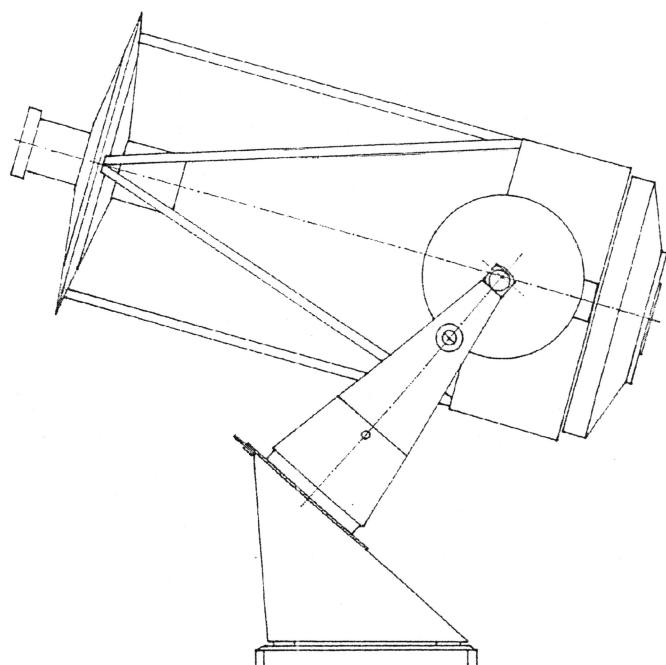
Das Teleskop ist als Gittertubus ausgeführt. Die dazugehörige „Österreich-Montierung“, eine Gabelmontierung, fertigten wir selbst nach Plänen von Ing. Rodolf Pressberger - Klosterneuburg.

Die Hardware für die Computer-Steuerung bauten wir nach Detailplänen von Dr. Manfred Stoll – Wien, der uns auch die umfangreiche Software bereitstellte.

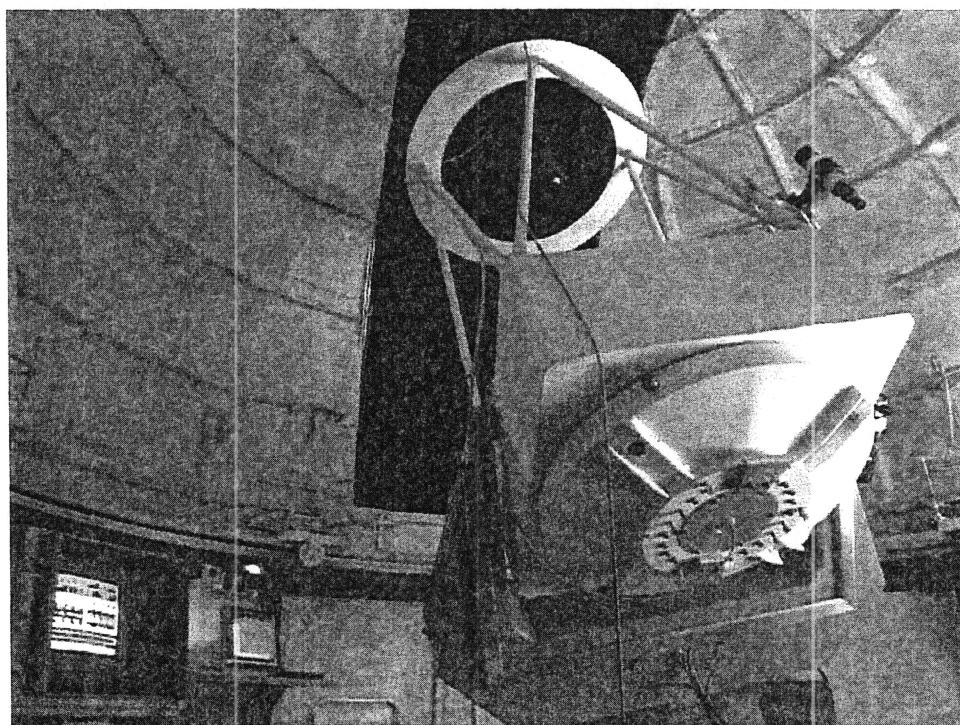
Nach nur 8-monatiger Bauzeit hatten wir am 26.10.1999 “first light”.

Die wichtigsten Daten des neuen Teleskops:

- Parabolspiegel mit 61 cm Ø, f/3.0
- dreilinsiger Wynne-Korrektor \Rightarrow f/3.3
- Optisches System „DELTAGRAPH“ (Astro Optik)
- Perfekte Ausleuchtung eines 6 x 8 cm² ebenen Bildfelds mit punktförmiger Abbildung
- Kamera mit elektromotorischem Verschluß
- Elektromotorische Scharfstellung
- Gabelmontierung „Österreich-Montierung-Neu“
- Geringe Masse der bewegten Teile (285 kg)
- Servo-Antriebsmotore und Reibräder
- PC-Teleskopsteuerung von Dr. Stoll



Aufriß des Teleskops. Zu sehen ist der Gittertubus und die Gabelmontierung (Österreich-Montierung); rechts der Verfasser der zugehörigen Konstruktions-Pläne, Ing.Rudolf Pressberger (1942-2001)



Der 60cm Reflektor im Einsatz.
Links der Bildschirm der Teleskopsteuerung; daneben das Notebook für die CCD-Kamera

Astrometrie

Die Astrometrie beschäftigt sich mit der Positionsbestimmung von Himmelsobjekten.
Mein Spezialgebiet ist die Vermessung von Planetoiden und Kometen.

Schon vor dem Bau unserer Sternwarte beschäftigte ich mich ausführlich mit der Theorie dieses Themas. Nachdem mich auch schon damals die Bahnbestimmung sehr interessierte, war die Astrometrie in Verbindung mit der Bahnbestimmung bzw. Bahnverbesserung eine logische Kombination.

Erste Versuche stellte ich bereits 1973 mit einem 4½ Zoll Newton-Teleskop an.

Die Aufgabenstellung der Astrometrie

1) Meßwerte

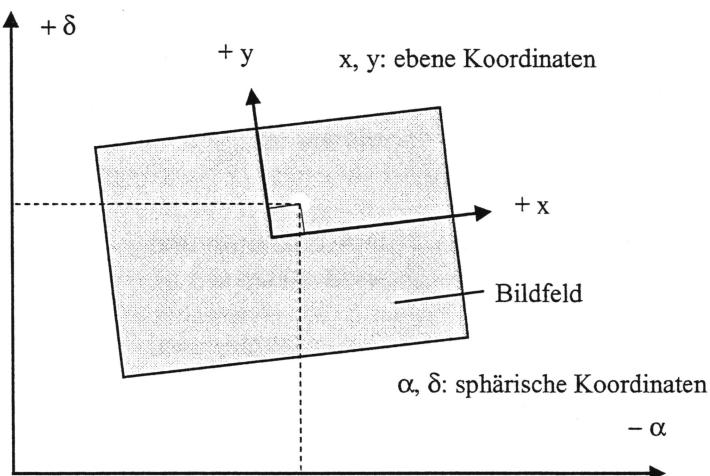
- x_i, y_i Koordinaten der Referenzsterne
- x_o, y_o Koordinaten des Objekts
- α_M, δ_M Koordinaten der Bildmitte
- α_I, δ_I Koordinaten der I-Referenzsterne

2) Plattenkonstanten

- a, b, c, d, e, f

3) Topozentrische Koordinaten

- α_o, δ_o Koordinaten des gesuchten Objekts



Aus den Meßkoordinaten (x, y) können mittels der Plattenkonstanten die sphärischen Koordinaten (α_o, δ_o) mit hoher Genauigkeit errechnet werden. Hierfür müssen mindestens drei Referenzsterne mit exakten Koordinaten verwendet werden. In der Praxis verwende ich Hunderte von Referenzsternen.

Klassische Astrometrie

Viele Jahre, von 1979 (12.9.1979) bis 1993 (12.2.1993), arbeitete ich nach der klassischen Methode.

Die klassische Methode basiert auf der Filmtechnik. Anfangs verwendete ich den spektroskopischen Kodakfilm 103aE (mit rußgeschwärzter Rückseite). Später wurde ausschließlich der hypersensibilisierte Kodakfilm 2415 eingesetzt.

Mit Hilfe einer Meßmaschine (Koordinaten-Kreuztisch) wurden am Filmnegativ die x- und y-Koordinaten vom zu astrometrierenden Objekt und von den notwendigen Referenzsternen vermessen, gefolgt von der langwierigen Prozedur der Berechnungen mit einem programmierbaren Taschenrechner.

Mit der von Herbert Raab im Jahre 1990 entwickelten PC-Software (Astrometrica) reduzierte sich der Rechenaufwand enorm. Mit dieser Neuerung erlebte meine astrometrische Arbeit einen neuen Aufschwung.

Die Neuentwicklung in der CCD-Technik eröffnete auch uns völlig neue Methoden sowohl bei der Fotografie als auch in der Vermessung.

CCD-Astrometrie

Anfang der 90er Jahre begann ein erfreulicher Preisverfall bei den CCD-Kameras. Nach umfangreichen Vorversuchen mit einer kleinen CCD-Nachführkamera (ST-4) und der auf die neue Digital-Technik angepaßten Software *Astrometrica* gab es in dieser Spezialdisziplin für uns einen neuerlichen Quantensprung, nachdem ich mir im Jahre 1993 eine moderne CCD-Kamera angeschafft hatte (Typ ST-6, Fabrikat S.B.I.G.). Mit dieser modernen Technik wurde die bis dato zeitaufwendige Prozedur schlagartig minimiert. Neben der großen Zeitsparnis konnte die erreichbare Grenzgröße um einige Größenklassen gesteigert werden. Das Softwarepaket von Herbert Raab ist mittlerweile weltweit eines der bekanntesten Standardprogramme für die Astrometrie.

Vergleich des Zeitaufwandes für die Vermessung (4 Aufnahmen):

- Vermessung mit Koordinatenmeßtisch und Einsatz eines programmierbaren Taschenrechners	mehrere Stunden
- Vermessung mit Koordinatenmeßtisch und Einsatz eines PC	90 Minuten
- Vermessung von CCD-Aufnahmen und Einsatz eines PC (Standardprogramm)	5 Minuten
- Vermessung von CCD-Aufnahmen und Einsatz eines PC (<i>Astrometrica for Windows</i>)	1 Minute

Heute arbeite ich mit „*Astrometrica for Windows*“, einer Weiterentwicklung.

Spezialität:

- Selbständige Erkennung der Referenzsterne
- Bei bekannter Objekteigenbewegung können beliebig viele Einzelaufnahmen der Eigenbewegung entsprechend addiert werden
- Kennung von Objekten
- Automatisierte Erkennung bewegter Objekte

An genügend scharfen Referenzsterne gibt es heute keinen Mangel mehr.

Derzeit gängig ist der Katalog USNO A2.0 mit 54,787.624 Referenzsternen (ohne Stern-Eigenbewegung) und der UCAC 2 (mit Stern-Eigenbewegung).

Erreichbare Genauigkeit:

Mit dem Sternenkatalog USNO A2.0 erreiche ich im Mittel 0,49 Bogensekunden in RA und 0,45 Bogensekunden in DEC. Das ist ein sehr zufriedenstellendes Ergebnis, wenn man die geringe Objekthelligkeit, die ja im allgemeinen nur ein mäßiges SNR (signal noise ratio) ergibt, berücksichtigt.

Schwerpunkt der Beobachtungen

Grundsätzlich ist es mein Ziel, den Bahnbogen der Objekte durch meine Positionen wesentlich zu erweitern.

An erster Stelle meiner Beobachtungswunschliste stehen die NEOs (Near Earth Objekts) und TNOs (Trans Neptunian Objects). Um international beachtenswerte Positionen liefern zu können, sind Objekte mit einer Helligkeit um +20mag und schwächer zu beobachten.

Zumeist ist deren Eigenbewegung hoch und daher die erfolgreiche Vermessung schwierig.

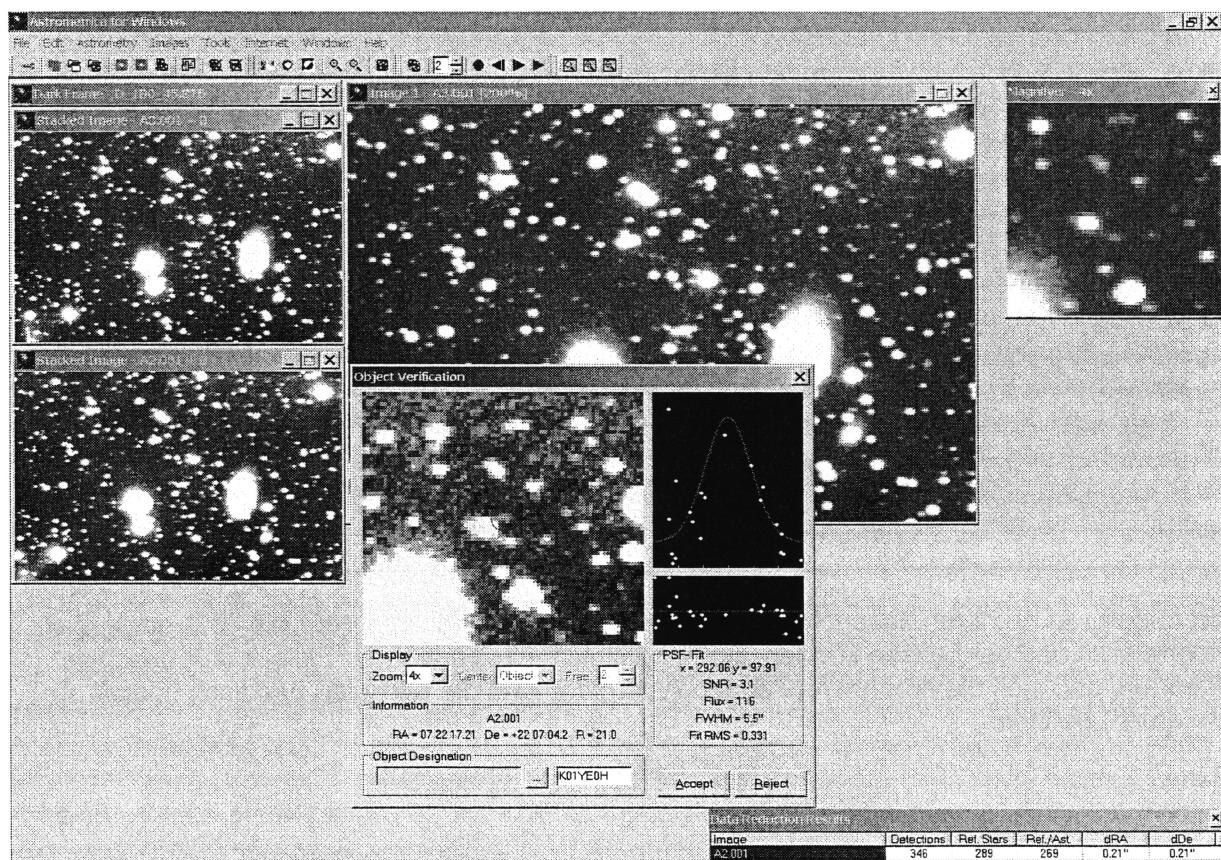
Seit einiger Zeit arbeite ich sehr erfolgreich mit Reiner Stoss, er ist ein Mitglied des DANEOPS-Teams, zusammen (DANEOPS = DLR-Archenhold Near Earth Objects Precovery Survey).

Er hat sich auf Bahnverbesserungsrechnungen und auf precoveries spezialisiert. Unsere Zusammenarbeit krönen recoveries und precoveries.

Typischer Beobachtungsablauf

Eine optimale Vorbereitung ist die Voraussetzung für einen effizienten Ablauf in der Sternwarte.

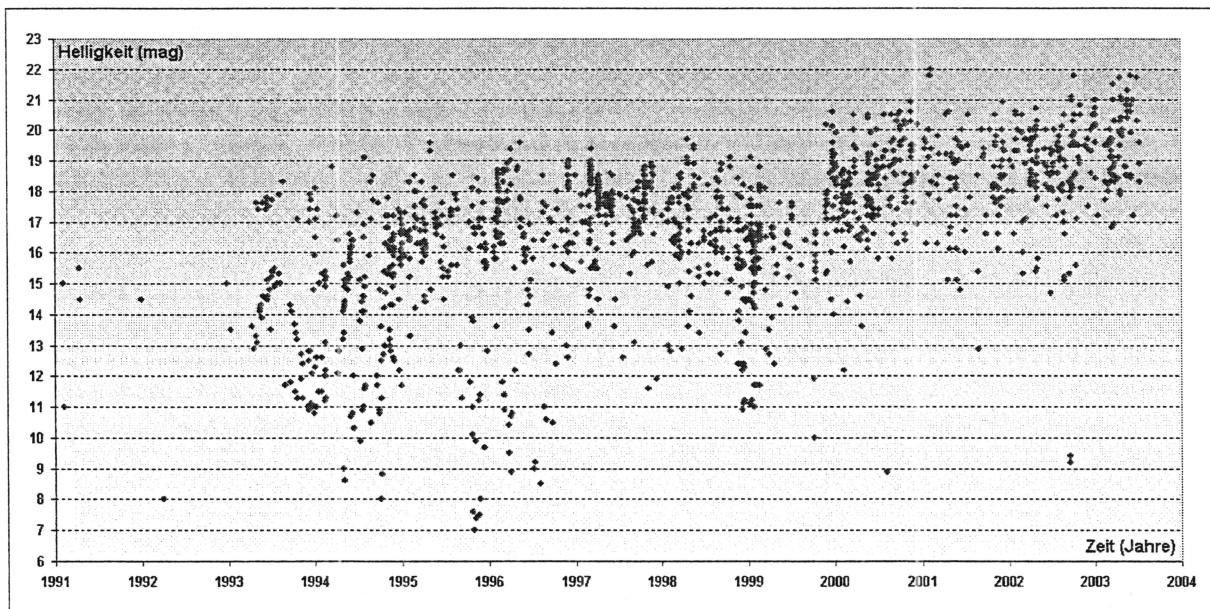
- Auswahl der zu beobachtenden Objekte
Um möglichst aktuelle Positionen liefern zu können (Ziel ist ja eine bedeutende Bahnbogenverlängerung), wähle ich kurze Zeit vor der Anfahrt zur Sternwarte die interessantesten Objekte via Internet aus. Das Internet nutze ich dann für die Berechnung der Objektposition (gestörte Ephemeriden), den dazugehörigen Unsicherheitsbereich und der Objekteigenbewegung. Festlegung der Belichtungszeiten.
- Beobachtung der ausgewählten Objekte, exakte Dokumentation der Belichtungszeiten.
Das Anfahren der ausgewählten Objekte mit dem Teleskop und Übernahme der Objekteigenbewegung erfolgt auf Tastendruck automatisch (wird zuvor zuhause auf Diskette gespeichert und in der Sternwarte in die Teleskopsteuerung eingespielt).
- Vermessung der fotografierten Objekte
Noch in der Sternwarte vermesse ich die beobachteten Kleinplaneten bzw. Kometen. Kritische Prüfung der berechneten Positionen.
- Zuhause angekommen, versende ich die Positionen sofort via e-mail an das MPC (Minor Planet Center) mit Sitz in Cambridge U.S.A. Dort werden die weltweit getätigten Positionen gesammelt, für die Bahnrechnungen weiterverwendet und spätestens nach 24 Stunden publiziert.



Beispiel der Vermessung des TNO 2001YH140

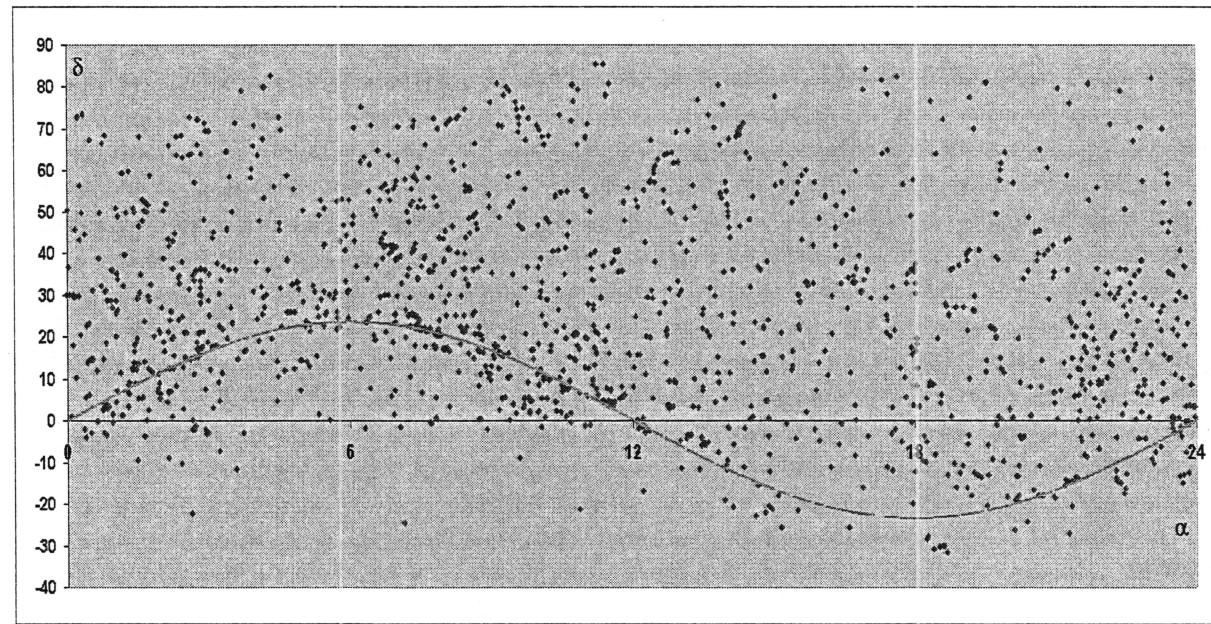
Ein wenig Statistik

Objekthelligkeiten versus Zeit



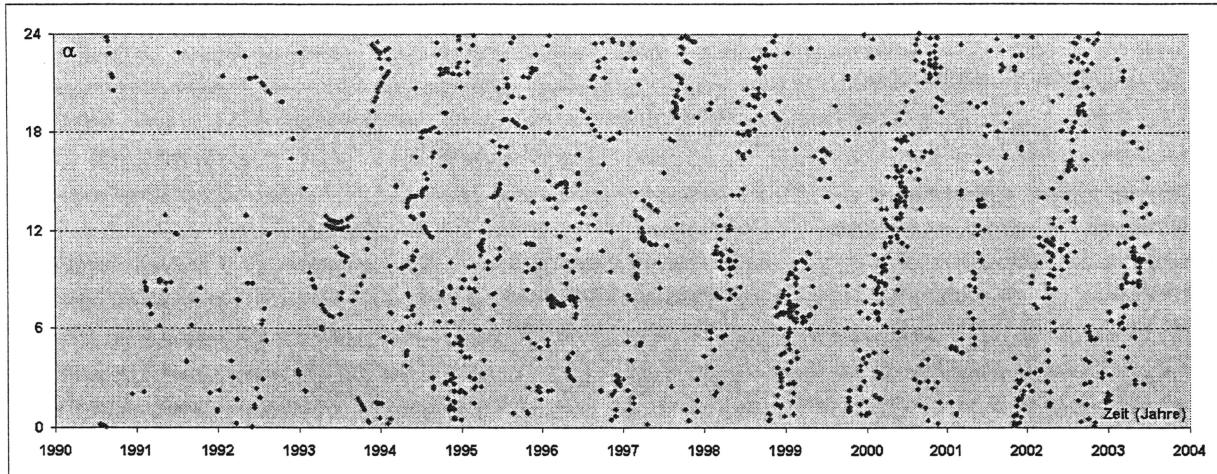
Das Diagramm zeigt die gemessenen Objekthelligkeiten (Kometen und Asteroiden). Deutlich ist der Sprung zu geringeren Helligkeiten (+20mag und schwächer) seit der Nutzung des neuen Teleskops zu sehen. Die Zeitskala beginnt erst ab 1991, da ich vorher keine Helligkeiten ermittelt hatte.

Deklination versus Rektaszension



Asteroiden wie Kometen habe ich in einem Deklinationsbereich von $+85^\circ$ bis -32° erfolgreich fotografieren und vermessen können. Der eingezzeichnete Verlauf der Ekliptik lässt unschwer erkennen, daß sich die erbahnkreuzenden Asteroiden und die Kometen praktisch überall am Firmament befinden.

Rektaszension versus Zeit



Diese Grafik zeigt ab 1990 das jährliche Fortschreiten der Beobachtungen entlang der Rektaszension.

Anzahl der Positionen

Bis Redaktionsschluss dieser Monografie konnte ich 5630 Positionen von Asteroiden bzw. Kometen bestimmen.

Entdeckung von Asteroiden

Im Zuge der Aktivitäten unternahmen wir (Erwin Obermair, Herbert Raab und ich) fallweise den Versuch, Asteroiden selbst zu entdecken.

Den ersten Erfolg konnten wir am 14.1.1996 mit der Entdeckung von 1996AU1 verbuchen.

Bis zur Drucklegung gehen folgende Entdeckungen auf das Davidschlager Konto:

Numerierte Asteroiden

Nummer und Name	Entdeckungsdatum	Entdecker
(9097) Davidschlag = 1996 AU ₁	1996 Jan. 14	E. Meyer, E. Obermair, H. Raab
(9119) Georgpeuerbach = 1998 DT	1998 Feb. 18	E. Meyer, E. Obermair, H. Raab
(9236) Obermair = 1997 EV ₃₂	1997 Mar. 12	E. Meyer
(13682) Pressberger = 1997 PG ₃	1997 Aug. 10	E. Meyer, H. Raab
(14057) Manfredstoll = 1996 AV ₁	1996 Jan. 15	E. Meyer, E. Obermair, H. Raab
(14977) Bressler = 1997 SE ₄	1997 Sep. 26	E. Meyer
(15949) Rhaeticus = 1998 BQ	1998 Jan. 17	E. Meyer, E. Obermair
(15955) Johannesgmunden = 1998 BS ₁₃	1998 Jan. 26	E. Meyer
(16802) Rainer = 1997 SP ₃	1997 Sep. 25	E. Meyer
(24916) Stelzhamer = 1997 EK ₁₁	1997 Mar. 7	E. Meyer
(26355) = Grueber = 1998 YL ₈	1998 Dec. 23	E. Meyer
(29427) = Oswaldthomas = 1997 EJ ₁₁	1997 Mar. 7	E. Meyer
(43955) = 1997 CE ₆	1997 Feb. 6	E. Meyer, E. Obermair
(48681) = 1996 BZ	1996 Jan. 21	E. Meyer, E. Obermair
(48801) = 1997 UC ₁	1997 Oct. 22	E. Meyer
(58499) = 1996 VY	1996 Nov. 3	E. Meyer, E. Obermair

Mehrfachoppositions-Objekte

Bezeichnung	Entdeckungsdatum	Entdecker	Bahnbogen
1996 VX	1996 Nov. 3	E. Meyer, E. Obermair	6 Opp., 1986-2003
1996 VA ₁	1996 Nov. 3	E. Meyer, E. Obermair	3 Opp., 1996-2000
1997 CD ₆	1997 Feb. 6	E. Meyer	3 Opp., 1997-2003
1998 DM ₁	1998 Feb. 18	E. Meyer, E. Obermair, H. Raab	4 Opp., 1996-2003
1998 OR ₄	1998 Jul. 26	E. Meyer	4 Opp., 1998-2003
1999 WH ₂	1999 Nov. 26	E. Meyer	4 Opp., 1994-2003

1996 EC	1996 Mar. 3	E. Meyer	5 Opp., 1996-2003
1999 WG ₂	1999 Nov. 26	E. Meyer	3 Opp., 1992-2004

Objekte mit längeren Bahnbögen Bezeichnung	Entdeckungsdatum	Entdecker	Bahnbogen
2003 ST217	2003 09 27	E. Meyer	30 Tage

Objekte mit kurzen Bahnbögen Bezeichnung	Entdeckungsdatum	Entdecker	Bahnbogen
1996 AT ₂	1996 Jan. 15	E. Meyer, E. Obermair	2 Tage
1996 AU ₂	1996 Jan. 15	E. Meyer, E. Obermair	2 Tage
1996 AV ₂	1996 Jan. 15	E. Meyer, E. Obermair	2 Tage
1996 CO ₁	1996 Feb. 9	E. Meyer, E. Obermair	2 Tage
1997 CA ₁₉	1997 Feb. 8	E. Meyer, E. Obermair	2 Tage

Dem Entdecker steht nach Jahren der Beobachtung das Recht der Benennung zu. Dieses Recht haben wir wie folgt genutzt:

(9097) Davidschlag

1996 AU₁. Discovered 1996 January 14 at Linz.

Named for a small rural village, some 10 km to the north of Linz, at the entrance to a region known as "Sterngartl", or "small garden of stars". This object is the first minor planet discovered at the amateur astronomical observatory that is located in this village.

(M.P.C. 34628)

(9236) Obermair

1997 EV₃₂. Discovered 1997 March 12 by E. Meyer at Linz.

Named in honor of the Austrian amateur astronomer Erwin Obermair (b. 1946), who, together with the discoverer, is co-owner of the private observatory in Davidschlag, near Linz. A technician by profession, Obermair is also a well-known astrophotographer and popularizer of astronomy.

(M.P.C. 34629)

(9119) Georgpeuerbach

1998 DT. Discovered 1998 February 18 at Linz.

Named in memory of Georg Aunpekh von Peuerbach (1423-1461), professor at the University of Vienna, astronomer at the court of emperor Friedrich III, mathematician, poet, early humanist and teacher of Regiomontanus. He discovered the magnetic declination, introduced sines into trigonometry and invented the foldable sundial, the first trustworthy pocket timepiece.

Named on the occasion of the unveiling of a memorial tablet on St. Stephan's cathedral in Vienna, where Peuerbach is buried.

(M.P.C. 34350)

(13682) Pressberger

1997 PG₃. Discovered 1997 August 10 by E. Meyer and H. Raab at Linz.

Rudolf Pressberger (1942-2001) invented an improved telescope fork mount, named the "Austria Mount". First released in 1986, it features a right-ascension axis built inside the fork, works without ball bearings and uses friction drives. Using this design, Pressberger also built a 1.0-m Ritchey-Chritien telescope himself.

(M.P.C. 41033)

(14057) Manfredstoll

1996 AV₁. Discovered 1996 January 15 by E. Meyer and E. Obermair at Linz.

Viennese computer specialist Manfred Stoll (b. 1938) is an expert in the practical application of computers in astronomy. Among other projects, he worked on software for digitizing photographic plates. He also developed a modern telescope drive system and control software, which is now also used at the observatory in Linz.

(M.P.C. 41034)

(14977) Bressler

1997 SE₄. Discovered 1997 September 26 by E. Meyer at Linz.

Austrian amateur astronomer Martin Bressler (b. 1912) started his astrometric program on minor

planets in 1982. Always eager to learn new techniques, he enthusiastically switched from photographic emulsions to a CCD in 1993.
(M.P.C. 41387)

(15949) Rhaeticus

1998 BQ. Discovered 1998 Jan. 17 by E. Meyer and E. Obermair at Linz.
Rhaeticus (Georg Joachim Lauchen, 1514-1574) was a humanist, physician, mathematician and astronomer at the universities of Vienna, Leipzig and Wittenberg. He summarized and popularized the work of his teacher Copernicus, initiating the first printing of *De Revolutionibus*.
(M.P.C. 42363)

(15955) Johannesgmunden

1998 BS₁₃. Discovered 1998 Jan. 26 by E. Meyer at Linz.
Johannes von Gmunden (1380/1384-1442), a priest, humanist, mathematician and astronomer at the University of Vienna, brought the mathematical and astronomical knowledge of Arabia to Europe. Known for his precise ephemerides, he also published the first printed calendar in German.
(M.P.C. 42363)

(16802) Rainer

1997 SP₃. Discovered 1997 Sep. 25 by E. Meyer at Linz.
Suffering from a serious heart disease since his birth, Rainer Gebetsroither (1976-1998) devoted his life to observations of nature as well as to the history and technology of railways. His parents Karin and Uwe are long-term members of the Linzer Astronomische Gemeinschaft.
(M.P.C. 45234)

(24916) Stelzhamer

1997 EK11. Discovered 1997 Mar. 7 by E. Meyer at the Davidschlag Observatory, Linz.
Franz Stelzhamer (1802 – 1874), great Austrian poet and novelist. He studied law, theology and painting, and worked as journalist, teacher and author. His "s'Hoamatgsang" is the anthem of the Austrian province Upper Austria.

(26355) Grueber

1998 YL8. Discovered 1998 Dec. 23 by E. Meyer at Linz.
Johannes Grueber (1623-1680), Jesuit priest, missionary, mathematician and astronomer at the Chinese imperial court from 1659-1661. He returned from China to Europe by the overland route, and published the very first travel log describing Tibet.

(29427) Oswaldthomas

1997 EJ11. Discovered 1997 Mar. 7 by E. Meyer at Linz.
Oswald Thomas (1882-1963), founder of the Astronomical Bureau in Vienna, and of the Astronomischer Verein, well known for his work on meteors and for popularizing astronomy. Thomas proposed the "Sterngarten", now known as the Vienna Open Air Planetarium.

Alle veröffentlichten Positionen v. Asteroiden u. Kometen

Chronologische Darstellung

Legende:

Name	Objektname; MPEC-Bezeichnung (hybrid-Form) Linksbündig: Objekte mit definitiver Bezeichnung, zB.: Asteroid (397) = 00397 Komet 4P = 0004P
	Eingerückt: Objekte mit provisorischer Bezeichnung: Asteroid 2004 BG25 = K02B25G Asteroid 1999 JK101 = J99JA1K Komet 1993F2g = DJ93F02g (Fragment G des Kometen) "C" = langperiodischer Komet "P" = kurzperiodischer Komet "D" = erloschener Komet "X" = unsicherer Komet "A" = Asteroid mit Kometbezeichnung
x	Kennung für Entdeckungsposition (*)
y	Kennung für Bemerkungen
z	Kennung, die die Meßmethode definiert A: Bildaufnahme analog (Film) C: Bildaufnahme digital (CCD)
Datum	Datum in Weltzeit (UTC); zumeist 5-stellig, in Sonderfällen (bei Objekten mit hoher Eigenbewegung oft 6-stellig)
RA	Rektaszension, Epoche: 2000.0, Zeitsekunde mit zwei Nachkommastellen
DEC	Deklination, Epoche: 2000.0, Bogensekunde mit einer Nachkommastelle
m	Helligkeit in Magnituden (R: Rothelligkeit, T: Gesamtheiligkeit des Kometen, N: Kernhelligkeit eines Kometen)
Code	IAU-Code für die Station in Davidschlag (540)

Sortierung der Positionen:

Bis 14.9.1999: reine zeitliche Abfolge.

Ab 14.9.2003: Reihenfolge, wie an das MPC weitergeleitet.

Name	xyz	Datum	RA	DEC	m	Code
00397	A1979 09 12.85764	21 08 01.02	+07 04 45.3		540	
00397	A1979 09 12.87361	21 08 00.65	+07 04 35.8		540	
00397	A1979 09 12.88056	21 08 00.46	+07 04 31.6		540	
00397	A1979 09 12.88194	21 08 00.42	+07 04 29.8		540	
02468	A1983 09 07.88056	23 18 17.42	+04 44 51.3		540	
02468	A1983 09 07.89097	23 18 16.84	+04 44 46.2		540	
02468	A1983 09 07.90139	23 18 16.35	+04 44 41.1		540	
02468	A1983 09 07.91181	23 18 15.84	+04 44 36.1		540	
02468	A1983 09 08.89028	23 17 28.35	+04 36 37.8		540	
02468	A1983 09 08.90069	23 17 27.95	+04 36 34.2		540	
02468	A1983 09 08.91111	23 17 27.37	+04 36 29.5		540	
02468	A1983 09 08.92153	23 17 26.84	+04 36 23.7		540	
02468	A1983 10 05.89757	22 59 24.54	+00 39 16.4		540	
02468	A1983 10 05.91161	22 59 24.18	+00 39 10.7		540	
02468	A1983 10 05.92569	22 59 23.86	+00 39 03.6		540	
02468	A1983 10 05.93924	22 59 23.46	+00 38 55.7		540	
01160	A1984 02 21.86458	07 21 38.15	+41 01 43.1		540	
01160	A1984 02 21.87637	07 21 37.91	+41 01 38.3		540	
01160	A1984 02 21.88819	07 21 37.62	+41 01 33.4		540	
01160	A1984 02 21.90021	07 21 37.28	+41 01 28.3		540	
01160	A1984 02 29.91389	07 19 34.99	+39 59 00.4		540	
01160	A1984 02 29.92431	07 19 34.83	+39 58 55.8		540	
01160	A1984 02 29.93542	07 19 34.74	+39 58 51.6		540	

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CJ90K010	A1990	06	17.96810	00 08 44.22	+29 16 35.7	540
CJ90K010	A1990	06	17.98299	00 08 44.32	+29 16 38.6	540
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CJ90K010	A1990	06	23.91842	00 09 23.24	+29 32 37.6	540
CJ90K010	A1990	06	23.93924	00 09 23.25	+29 32 41.8	540
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CJ90K010	A1990	07	02.99153	00 08 19.71	+29 51 25.5	540
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CJ90K010	A1990	07	24.90104	23 46 43.07	+29 17 08.6	540
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05646	A1990	11	10.91319	02 00 12.48	+26 50 46.3	540
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CJ91A020	A1991	01	14.87604	08 31 59.42	+32 13 49.0	540
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CJ91B010	A1992 07 30.91125	20 19 40.83	+33 52 48.0	540
CJ91B010	A1992 09 19.79167	19 50 32.71	+14 50 50.1	540
CJ91B010	A1992 09 19.81285	19 50 32.63	+14 50 23.1	540
CJ91B010	A1992 09 26.85799	19 50 50.64	+12 28 02.7	540
CJ91B010	A1992 09 26.87882	19 50 50.71	+12 27 38.1	540
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0109P	A1992 10 29.83021	16 20 09.37	+46 04 13.2	540
0109P	A1992 10 29.83333	16 20 10.79	+46 03 59.0	540
0109P	A1992 11 09.77292	17 33 24.69	+31 50 17.5	540
0109P	A1992 11 09.77465	17 33 25.31	+31 50 09.9	540
0109P	A1992 11 09.77639	17 33 25.79	+31 50 00.3	540
0109P	A1992 11 09.77812	17 33 26.49	+31 49 51.3	540
CJ92U010	A1992 11 24.87639	03 26 25.28	+35 55 17.2	15 T 540
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CJ92U010	A1992 11 27.78958	03 19 16.81	+36 47 36.5	540
CJ92U010	A1992 11 27.82083	03 19 12.21	+36 48 09.6	540
CJ92U010	A1992 11 30.89201	03 11 33.60	+37 40 31.7	540
CJ92U010	A1992 11 30.91979	03 11 29.41	+37 40 58.9	540
CJ92U010	A1992 12 25.77361	02 14 30.12	+42 49 44.4	540
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CJ92U010	A1992 12 28.88333	02 08 54.75	+43 16 37.0	540
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CJ93A010	C1993 10 09.89274	11 31 20.24	+80 47 29.9	11.4 T	540
CJ93A010	C1993 10 09.89377	11 31 21.37	+80 47 31.0	11.4 T	540
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CJ93A010	C1993 10 29.74137	18 23 13.71	+76 38 22.9	11.4 T	540
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CJ93Q010	C1993 11 05.74855	23 18 20.50	+27 12 02.8	12.6 T	540
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CJ93Q010	C1993 11 07.82362	23 15 07.37	+25 41 57.8	12.8 T	540
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	CJ93A010 C1993 12 13.80922	20 57 57.41	+33 55 26.1			540
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	CJ93Q010 C1993 12 30.70274	22 55 23.53	-05 45 22.6	12.6	T	540
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	CJ93Q010 C1993 12 30.70494	22 55 23.52	-05 45 26.2	12.8	T	540
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	CJ93A010 C1993 12 30.71289	21 21 43.15	+23 19 32.7	11.4	T	540
	CJ93A010 C1993 12 30.71376	21 21 43.25	+23 19 30.4	11.4	T	540
	CJ93A010 C1993 12 30.71463	21 21 43.30	+23 19 29.6	11.5	T	540
	CJ92J010 C1994 01 05.72814	00 13 21.18	+72 42 13.3	15.3	T	540
	CJ92J010 C1994 01 05.73128	00 13 21.72	+72 42 08.1	15.4	T	540
	CJ92J010 C1994 01 05.80149	00 13 29.54	+72 39 42.2	15.3	T	540
	CJ92J010 C1994 01 05.80353	00 13 29.64	+72 39 37.7	15.5	T	540
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	CJ93Q010 C1994 01 12.69968	23 03 13.25	-10 38 33.6	12.0	T	540
	CJ93Q010 C1994 01 12.70054	23 03 13.30	-10 38 35.4	12.1	T	540
	CJ93Q010 C1994 01 12.70141	23 03 13.34	-10 38 35.6	12.2	T	540
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	CJ93A010 C1994 01 12.70757	21 37 36.68	+17 26 48.4	11.3	T	540
	CJ93A010 C1994 01 12.71730	21 37 37.32	+17 26 35.6	11.3	T	540
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0002P	C1994 01 15.72010	22 26 03.08	+01 21 05.5	12.0	T	540
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	CJ93A010 C1994 01 15.73828	21 41 06.50	+16 17 54.0	11.2	T	540
	CJ93A010 C1994 01 15.73932	21 41 06.47	+16 17 53.5	11.0	T	540
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	CJ93Q010 C1994 01 15.74985	23 05 30.95	-11 41 21.3	12.0	T	540

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	CJ93Y010 C1994 03 27.81358	04 28 37.05	+04 39 26.8		540
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01515	C1995 01 08.84508	08 26 50.97	+36 21 34.1	15.9 R	540
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	CJ95O010 C1995 07 30.85920	18 38 45.55	-31 57 38.6	12.1 T	540
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	CJ95O010 C1995 08 04.85957	18 35 27.50	-31 47 50.9	12.5 T	540
	CJ95O010 C1995 08 04.86082	18 35 27.47	-31 47 51.6	12.5 T	540
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0006P	C1995 08 05.92847	23 46 50.81	-08 19 21.7	13.0 T	540
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	CJ95O010 C1995 08 11.84259	18 31 10.64	-31 32 40.9	11.5 T	540
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	CJ95O010 C1995 08 23.85388	18 24 53.75	-31 03 17.7	11.5 T	540
	CJ95O010 C1995 08 23.85517	18 24 53.70	-31 03 18.4	11.5 T	540
	CJ95O010 C1995 08 23.85765	18 24 53.63	-31 03 17.5	11.5 T	540
	CJ95O010 C1995 09 16.78921	18 17 19.81	-29 57 43.0	11.8 T	540
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	CJ95Q020 C1995 09 16.80105	20 06 57.99	-27 50 06.0	17 T	540
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	J95Q02Y C1995 09 16.83402	21 21 40.23	-21 20 10.4	16.1 R	540
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J95Q02Y	C1995 10 09.83279	21 18 26.48	-27 01 27.1	16.5 R	540
CJ95Q010	C1995 10 10.09149	11 09 54.04	+27 26 51.5	9.9 T	540
CJ95Q010	C1995 10 10.09306	11 09 54.07	+27 26 56.7	9.9 T	540
CJ95Q010	C1995 10 10.09444	11 09 54.00	+27 26 58.9	9.9 T	540
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0122P	C1995 10 22.16846	13 04 04.86	+30 56 36.9	7.5 T	540
0122P	C1995 10 22.16985	13 04 05.52	+30 56 37.4	7.5 T	540
0122P	C1995 10 22.17083	13 04 06.13	+30 56 40.5	7.4 T	540
CJ95Q010	C1995 10 22.17782	11 08 26.16	+36 11 55.3	11.2 T	540
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12711	C1995 10 22.75550	09 34 13.09	+74 32 24.5	18.4 R	540
12711	C1995 10 22.76348	09 34 13.97	+74 32 28.5	18.3 R	540
12711	C1995 10 22.77118	09 34 15.40	+74 32 31.6	18.3 R	540
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04665	C1996 01 14.74186	23 51 42.18	+03 40 07.4	17.3 R	540
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LNZ008	C1996 01 16.81852	07 21 44.93	+22 07 54.0		540
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09097	C1996 01 16.86580	07 55 43.80	+20 18 58.0	17.2 R	540
LNZ010	C1996 01 16.86580	07 55 24.19	+20 22 26.1		540
14057	C1996 01 16.86580	07 55 12.97	+20 22 09.7	17.2 R	540
14057	C1996 01 16.87102	07 55 12.68	+20 22 11.2	17.6 R	540
09097	C1996 01 16.87102	07 55 43.55	+20 18 58.8	17.2 R	540
LNZ010	C1996 01 16.87102	07 55 23 85	+20 22 26.5		540
J96A02V	C1996 01 16.88368	07 28 46.12	+21 41 35.3		540
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J96B00O	C1996 01 16.88854	07 29 12.36	+21 41 08.3	18.5 R	540
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09097	C1996 01 17.93279	07 54 48.93	+20 22 00.9	17.3 R	540
14057	C1996 01 17.94896	07 54 03.08	+20 26 26.3	17.8 R	540
09097	C1996 01 17.94896	07 54 48.13	+20 22 03.7	17.2 R	540
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CJ96B020	C1996 02 08.19285	14 37 50.65	-24 53 46.7	11.4 T	540
CJ96B020	C1996 02 08.19454	14 37 50.83	-24 53 47.3	11.1 T	540
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09097	C1996 02 09.88054	07 36 41.89	+21 20 18.2	17.6 R	540
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LNZ014 *	C1996 02 24.95949	07 24 23.59	+22 20 23.7	18.9 R	540
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CJ99H010	C1999 09 04.85567	05 59 33.66	+52 34 19.3	10.0 T	540
CJ99H010	C1999 09 04.86169	05 59 31.62	+52 34 32.4		540
CJ99H010	C1999 09 04.86285	05 59 31.40	+52 34 34.6		540
CJ99H010	C1999 09 04.86400	05 59 30.90	+52 34 37.2		540
CJ99H010	C1999 09 04.86516	05 59 30.51	+52 34 39.4		540
36017	C1999 09 10.82861	00 57 58.91	+26 47 58.0	15.4 R	540
36017	C1999 09 10.82992	00 57 59.26	+26 48 06.4		540
36017	C1999 09 10.83104	00 57 59.56	+26 48 13.7		540
J99R32B	C1999 09 10.83895	01 32 48.12	+30 26 24.4	15.7 R	540
J99R32B	C1999 09 10.84027	01 32 49.19	+30 26 35.3		540
J99R32B	C1999 09 10.84151	01 32 50.11	+30 26 44.5		540
J99R32B	C1999 09 10.84267	01 32 51.16	+30 26 54.9		540
36017	C1999 09 11.79588	01 02 24.75	+28 31 18.5	15.1 R	540
36017	C1999 09 11.79701	01 02 25.10	+28 31 26.0		540
36017	C1999 09 11.79809	01 02 25.40	+28 31 33.2		540
J99R32B	C1999 09 11.80797	01 46 18.39	+32 29 42.2	15.5 R	540
J99R32B	C1999 09 11.80922	01 46 19.36	+32 29 51.6		540
J99R32B	C1999 09 11.81325	01 46 22.83	+32 30 22.4		540
J99R33K	C1999 09 12.78647	21 12 37.22	+13 47 03.0	16.3 R	540
J99R33K	C1999 09 12.78790	21 12 37.77	+13 47 22.6	16.8 R	540
J99R33K	C1999 09 12.78918	21 12 38.13	+13 47 39.8	16.3 R	540
J99R33K	C1999 09 12.79047	21 12 38.63	+13 47 56.4	16.4 R	540
36017	C1999 09 13.78131	01 12 05.85	+32 05 37.4	15.7 R	540
36017	C1999 09 13.78252	01 12 06.19	+32 05 45.5		540
36017	C1999 09 13.78500	01 12 06.98	+32 06 02.0		540
J99R32B	C1999 09 13.79369	02 14 33.28	+36 13 41.0	15.9 R	540

J99R32B	C1999 09 13.79520	02 14 34.59	+36 13 49.7		540
J99R32B	C1999 09 13.79647	02 14 35.73	+36 13 57.9		540
J99R32B	C1999 09 13.79765	02 14 36.69	+36 14 06.0		540
J99L06F	C1999 09 14.88177	17 27 50.96	+78 14 09.9	16.7 R	540
J99L06F	C1999 09 14.88326	17 27 51.19	+78 14 14.7		540
J99L06F	C1999 09 14.88456	17 27 51.22	+78 14 18.2		540
J99R33K	C1999 09 14.89184	21 27 38.58	+22 21 30.5	16.6 R	540
J99R33K	C1999 09 14.89450	21 27 39.84	+22 22 15.3		540
J99R33K	C1999 09 14.89779	21 27 41.32	+22 23 07.6		540

Neues Teleskop

J99T10A	C1999 10 27.84282	01 23 58.84	+13 45 22.6	17.3 R	540
J99T10A	C1999 10 27.84473	01 23 58.80	+13 45 17.7		540
J99T10A	C1999 10 27.84624	01 23 58.69	+13 45 12.7		540
J99T10A	C1999 10 27.84774	01 23 58.63	+13 45 08.9		540
J99T10A	C1999 10 27.84919	01 23 58.59	+13 45 04.6		540
J99T10A	C1999 10 29.78611	01 22 58.59	+12 12 11.7	17.5 R	540
J99T10A	C1999 10 29.78773	01 22 58.53	+12 12 07.1		540
J99T10A	C1999 10 29.78918	01 22 58.46	+12 12 03.0		540
J99T10A	C1999 10 29.79062	01 22 58.42	+12 11 59.1		540
J99U03S	C1999 10 29.77083	06 56 22.40	+55 29 27.3	15.3 R	540
J99U03S	C1999 10 29.77196	06 56 22.56	+55 29 26.2		540
J99U03S	C1999 10 29.77321	06 56 22.77	+55 29 24.9		540
J99U03S	C1999 10 29.77425	06 56 22.94	+55 29 23.8		540
01876	C1999 10 30.73524	04 40 55.95	+58 42 03.6	17.7 R	540
01876	C1999 10 30.73831	04 40 55.77	+58 42 05.0		540
01876	C1999 10 30.74086	04 40 55.57	+58 42 06.2		540
01876	C1999 10 30.74340	04 40 55.45	+58 42 06.9		540
31824	C1999 10 30.80683	02 17 58.42	+08 24 17.9	17.9 R	540
31824	C1999 10 30.81192	02 17 58.31	+08 24 16.3		540
31824	C1999 10 30.81736	02 17 58.25	+08 24 15.8		540
31824	C1999 10 30.82211	02 17 58.11	+08 24 15.7		540
31824	C1999 10 30.82685	02 17 58.03	+08 24 16.0		540
31824	C1999 10 30.83142	02 17 57.90	+08 24 15.5		540
D71090	C1999 10 31.79109	07 02 03.97	+62 22 04.9	17.1 R	540
D71090	C1999 10 31.79375	07 02 04.53	+62 22 03.6		540
D71090	C1999 10 31.79630	07 02 05.02	+62 22 02.3		540
D71123	C1999 10 31.72107	03 27 05.21	+58 24 04.7	16.6 T	540
D71123	C1999 10 31.72407	03 27 05.25	+58 24 05.5		540
D71123	C1999 10 31.72674	03 27 05.19	+58 24 06.0		540
D71123	C1999 10 31.72963	03 27 05.20	+58 24 06.9		540
D71123	C1999 10 31.73229	03 27 05.17	+58 24 07.5		540
D71123	C1999 10 31.74028	03 27 05.09	+58 24 09.8		540
J98SG5M	C1999 10 31.85235	00 45 25.28	+02 28 38.7	20.2 R	540
J98SG5M	C1999 10 31.89711	00 45 25.09	+02 28 38.3		540

After Michael Jäger reported his photographic recovery of what is probably fragment "D" of comet 141P/1999 P1 (Machholz 2), E. Meyer and E. Obermair successfully observed this object with the new 0.6m f/3.0 reflector at Linz.

The images were taken at low altitude in bad seeing, and through thin cirrus clouds. The object is clearly nonstellar, with a coma diameter of about 0.5'.

0141P d	C1999 11 01.70758	18 15 13.16	-11 59 17.6	15.4 T	540
0141P d	C1999 11 01.70955	18 15 13.36	-11 59 16.8		540
0141P d	C1999 11 01.73993	18 15 18.13	-11 59 17.0		540
0141P d	C1999 11 01.74149	18 15 18.39	-11 59 17.1		540
0141P d	C1999 11 01.74936	18 15 19.69	-11 59 16.9		540
1B4001	C1999 11 04.87072	03 44 22.11	-03 07 36.4	17.6 R	540
1B4001	C1999 11 04.87315	03 44 21.90	-03 07 30.3		540
1B4001	C1999 11 04.87569	03 44 21.68	-03 07 23.9		540
9V2504	C1999 11 04.84381	02 27 27.66	+02 43 30.0	18.0 R	540
9V2504	C1999 11 04.85503	02 27 25.76	+02 44 03.6		540
9V2504	C1999 11 04.85862	02 27 25.24	+02 44 14.6		540
D95397	C1999 11 15.86429	04 10 07.57	+16 05 24.7	18.6 R	540

D95397	C1999 11 15.86678	04 10 08.35	+16 05 16.6		540
D95397	C1999 11 15.87222	04 10 09.29	+16 05 12.4		540
J99R27H	C1999 11 20.79445	02 48 39.92	+36 08 01.3	14.5 R	540
J99R27H	C1999 11 20.79595	02 48 39.99	+36 08 02.6		540
J99R27H	C1999 11 20.79740	02 48 40.07	+36 08 04.3		540
J99R27H	C1999 11 20.79884	02 48 40.15	+36 08 05.9		540
J99W00Y	C1999 11 20.92147	08 36 56.44	+25 19 57.9	16 R	540
J99W00Y	C1999 11 20.92413	08 36 56.61	+25 19 55.6		540
J99W00Y	C1999 11 20.92650	08 36 56.59	+25 19 55.1		540
J99W00Y	C1999 11 20.93027	08 36 56.77	+25 19 52.5		540
J99W02G*	C1999 11 26.74456	00 45 03.08	+02 30 04.9	18.7 R	540
J99W02G	C1999 11 26.80139	00 45 04.47	+02 30 16.4		540
J99U03S	C1999 11 26.81395	07 36 42.51	+39 14 13.2	14.0 R	540
J99U03S	C1999 11 26.81510	07 36 42.52	+39 14 09.7		540
J99U03S	C1999 11 26.81620	07 36 42.55	+39 14 06.0		540
J99W02H*	C1999 11 26.74456	00 45 14.17	+02 25 09.3	19.2 R	540
J99W02H	C1999 11 26.76307	00 45 14.28	+02 25 16.1		540
J99W02H	C1999 11 26.78757	00 45 14.44	+02 25 27.8		540
J99W02H	C1999 11 26.80139	00 45 14.44	+02 25 34.7		540
J99W02H	C1999 11 27.74560	00 45 22.27	+02 32 45.3	19.1 R	540
J99W02H	C1999 11 27.75012	00 45 22.30	+02 32 48.7		540
J99W02H	C1999 11 27.75590	00 45 22.42	+02 32 51.2		540
J99W22H	C1999 11 27.76181	00 45 22.37	+02 32 53.4		540
J99W02G	C1999 11 27.74560	00 45 33.32	+02 33 23.2	18.9 R	540
J99W02G	C1999 11 27.75012	00 45 33.38	+02 33 26.5		540
J99W02G	C1999 11 27.75590	00 45 33.47	+02 33 26.8		540
J99W02G	C1999 11 27.76181	00 45 33.75	+02 33 27.1		540
01876	C1999 11 27.71603	03 54 27.94	+58 03 55.1	17.5 R	540
01876	C1999 11 27.71898	03 54 27.55	+58 03 53.9		540
01876	C1999 11 27.72130	03 54 27.23	+58 03 52.2		540
03200	C1999 11 27.72853	00 44 16.50	+32 09 42.5	17.1 R	540
03200	C1999 11 27.73084	00 44 16.39	+32 09 39.1		540
03200	C1999 11 27.73304	00 44 16.26	+32 09 36.5		540
J99W3E	C1999 11 27.74560	00 45 45.81	+02 37 07.2	18.4 R	540
J99W3E	C1999 11 27.75012	00 45 45.92	+02 37 07.8		540
J99W3E	C1999 11 27.75590	00 45 45.92	+02 37 07.1		540
J99W3E	C1999 11 27.76181	00 45 45.98	+02 37 07.5		540
J99W00Z	C1999 11 28.69201	01 33 16.95	+34 59 57.3	17.5 R	540
J99W00Z	C1999 11 28.69343	01 33 17.25	+34 59 51.0		540
J99W00Z	C1999 11 28.69481	01 33 17.58	+34 59 44.6		540
J99W00Z	C1999 11 28.69620	01 33 17.88	+34 59 38.4		540
19308	C1999 11 28.79354	23 56 43.26	+03 19 29.3	20.6 R	540
19308	C1999 11 28.81860	23 56 43.21	+03 19 29.6		540
J99W02G	C1999 11 28.84248	00 46 08.30	+02 37 17.6	20.1 R	540
J99W3E *	C1999 11 28.84248	00 46 03.86	+02 37 26.7	19.1 R	540
J99W3E	C1999 11 28.84701	00 46 03.96	+02 37 27.3		540
J99W02G	C1999 11 28.84701	00 46 08.42	+02 37 20.0		540
J99W02H	C1999 11 28.85660	00 45 33.21	+02 41 20.2	19.3 R	540
J99W02G	C1999 11 28.85660	00 46 08.82	+02 37 19.4		540
J99W3E	C1999 11 28.85660	00 46 04.14	+02 37 27.6		540
J99W02H	C1999 11 28.86470	00 45 33.30	+02 41 23.5		540
J99W02G	C1999 11 28.86470	00 46 08.99	+02 37 21.1		540
J99W3E	C1999 11 28.86470	00 46 04.21	+02 37 26.8		540
19308	C1999 11 29.77925	23 56 42.03	+03 19 21.0		540
19308	C1999 11 30.73556	23 56 40.71	+03 19 16.0		540
J99W02H	C1999 11 30.78854	00 45 58.30	+02 56 36.1	20.1 R	540
J99W02H	C1999 11 30.79363	00 45 58.08	+02 56 38.7		540
J99W02H	C1999 11 30.79826	00 45 58.39	+02 56 39.2		540
J99W02H	C1999 11 30.80590	00 45 58.49	+02 56 43.6		540
J99W02G	C1999 11 30.82479	00 47 18.07	+02 44 57.5	18.4 R	540
J99W02G	C1999 11 30.83565	00 47 18.34	+02 45 00.8		540
J99W02G	C1999 11 30.84650	00 47 18.72	+02 45 03.0		540

J99W02G	C1999 11 30.85734	00 47 18.97	+02 45 04.5		540
J99W03E	C1999 11 30.82479	00 46 42.46	+02 38 43.7	19.6 R	540
J99W03E	C1999 11 30.83565	00 46 42.65	+02 38 44.7		540
J99W03E	C1999 11 30.84650	00 46 42.85	+02 38 45.6		540
J99W03E	C1999 11 30.85734	00 46 43.09	+02 38 46.1		540
J96T66O	C1999 11 28.79354	23 56 43.26	+03 19 29.3	20.6 R	540
J96T66O	C1999 11 28.81860	23 56 43.21	+03 19 29.6		540
J96T66O	C1999 11 29.77925	23 56 42.03	+03 19 21.0		540
J96T66O	C1999 11 30.73556	23 56 40.71	+03 19 16.0		540
J99RA5H	C1999 12 08.82561	00 49 06.22	+04 08 33.7	18.9 R	540
J99RA5H	C1999 12 08.83891	00 49 06.43	+04 08 36.0		540
J99RA5H	C1999 12 08.85191	00 49 06.60	+04 08 38.6		540
J97F01W	C1999 12 08.88115	00 53 24.67	+03 24 07.6	18.3 R	540
J97F01W	C1999 12 08.89186	00 53 24.66	+03 24 10.8		540
J97F01W	C1999 12 08.91174	00 53 24.72	+03 24 14.5		540
J97F01W	C1999 12 09.77546	00 53 26.69	+03 27 36.7	18.8 R	540
J97F01W	C1999 12 09.78836	00 53 26.76	+03 27 39.5		540
J97F01W	C1999 12 09.81793	00 53 26.82	+03 27 46.6		540
J97J15M	C1999 12 09.88345	04 21 45.28	+19 37 14.2	17.8 R	540
J97J15M	C1999 12 09.88574	04 21 45.16	+19 37 14.0		540
J97J15M	C1999 12 09.88829	04 21 44.99	+19 37 14.0		540
J97J15M	C1999 12 09.89317	04 21 44.70	+19 37 13.7		540
J99RA5H	C1999 12 09.84058	00 49 22.22	+04 11 47.5	18.2 R	540
J99RA5H	C1999 12 09.85347	00 49 22.43	+04 11 50.1		540
J99RA5H	C1999 12 09.86646	00 49 22.63	+04 11 52.7		540
J99W02H	C1999 12 08.82561	00 48 53.71	+04 04 05.4	19.2 R	540
J99W02H	C1999 12 08.83891	00 48 53.95	+04 04 10.8		540
J99W03E	C1999 12 09.72285	00 51 00.07	+02 55 01.9	18.4 R	540
J99W03E	C1999 12 09.73576	00 51 00.59	+02 55 03.9		540
J99W03E	C1999 12 09.74882	00 51 00.99	+02 55 06.0		540
J99W02H	C1999 12 09.84058	00 49 23.37	+04 13 00.0	19.9 R	540
J99W02H	C1999 12 09.85347	00 49 23.92	+04 13 04.7		540
J99W02H	C1999 12 09.86646	00 49 24.36	+04 13 18.5		540
12845	C1999 12 09.88345	04 21 45.28	+19 37 14.2	17.8 R	540
12845	C1999 12 09.88574	04 21 45.16	+19 37 14.0		540
12845	C1999 12 09.88829	04 21 44.99	+19 37 14.0		540
12845	C1999 12 09.89317	04 21 44.70	+19 37 13.7		540
J99X35S	C1999 12 11.71227	06 37 29.06	+64 41 50.2	16.7 R	540
J99X35S	C1999 12 11.71458	06 37 28.71	+64 41 50.3		540
J99X35S	C1999 12 11.71684	06 37 28.32	+64 41 50.5		540
J99X35S	C1999 12 11.71904	06 37 28.01	+64 41 50.5		540
J99Y03G	C1999 12 22.89826	09 09 50.09	+80 35 46.2	17.1 R	540
J99Y03G	C1999 12 22.90093	09 09 48.74	+80 35 49.1		540
J99Y03G	C1999 12 22.90326	09 09 46.42	+80 35 50.8		540
J99Y03G	C1999 12 22.90799	09 09 40.98	+80 35 54.4		540
J99Y03G	C1999 12 22.91134	09 09 38.94	+80 35 57.0		540
J99V11O	C2000 01 05.77991	22 31 58.66	+25 06 45.6	18.5 R	540
J99V11O	C2000 01 05.78225	22 31 57.54	+25 06 51.4		540
J99V11O	C2000 01 05.78451	22 31 56.46	+25 06 57.5		540
J99Y00C	C2000 01 05.76811	22 36 50.12	+32 47 42.7	17.6 R	540
J99Y00C	C2000 01 05.77051	22 36 49.23	+32 47 33.8	17.4 R	540
J99Y00C	C2000 01 05.79398	22 36 40.73	+32 46 04.0	18.5 R	540
J99Y00C	C2000 01 05.81422	22 36 33.32	+32 44 46.4	18.6 R	540
J99Y03G	C2000 01 05.82421	04 31 52.40	+72 48 52.3	16.7 R	540
J99Y03G	C2000 01 05.82660	04 31 50.40	+72 48 36.8		540
J99Y03G	C2000 01 05.82896	04 31 48.47	+72 48 21.5		540
J99Y03G	C2000 01 05.83222	04 31 45.62	+72 47 59.7		540
J99Y14R	C2000 01 05.84515	07 27 22.28	+33 44 12.2	18.6 R	540
J99Y14R	C2000 01 05.84968	07 27 21.66	+33 44 11.3		540
J99Y14R	C2000 01 05.85412	07 27 21.06	+33 44 10.6		540
0141Pa a	C2000 01 06.69117	23 38 53.43	-14 39 44.7	12.2 T	540
0141Pa a	C2000 01 06.69365	23 38 54.89	-14 39 45.6		540

0141Pa	a	C2000 01 06.69549	23 38 56.00	-14 39 46.3		540
0141Pa	a	C2000 01 06.69749	23 38 57.29	-14 39 46.0		540
0141Pa	a	C2000 01 06.69944	23 38 58.52	-14 39 46.8		540
48681		C2000 01 07.94427	10 31 53.69	+11 53 50.9	17.8 R	540
48681		C2000 01 07.94688	10 31 53.73	+11 53 51.3		540
48681		C2000 01 07.97243	10 31 53.94	+11 53 57.8		540
48681		C2000 01 07.97523	10 31 53.96	+11 53 58.4		540
13682		C2000 01 07.95521	09 03 09.88	+15 18 37.6	17.9 R	540
13682		C2000 01 07.96024	09 03 09.67	+15 18 38.5		540
13682		C2000 01 07.96505	09 03 09.47	+15 18 39.5		540
13682		C2000 01 07.98299	09 03 08.80	+15 18 43.1		540
13682		C2000 01 07.98877	09 03 08.61	+15 18 44.1		540
13682		C2000 01 07.99352	09 03 08.39	+15 18 45.0		540
K00A93Z		C2000 01 08.78414	01 55 10.27	+06 58 22.8	17.8 R	540
K00A93Z		C2000 01 08.78671	01 55 10.78	+06 58 18.0		540
K00A93Z		C2000 01 08.78918	01 55 11.17	+06 58 12.9		540
K00A93Z		C2000 01 08.79167	01 55 11.67	+06 58 08.4		540
K00A93Z		C2000 01 08.79412	01 55 12.08	+06 58 03.9		540
K00A93Z		C2000 01 09.72662	01 58 16.16	+06 28 34.1	18.2 R	540
K00A93Z		C2000 01 09.72917	01 58 16.64	+06 28 29.1		540
K00A93Z		C2000 01 09.73148	01 58 17.05	+06 28 25.3		540
E86365		C2000 01 11.91113	06 56 50.65	+01 25 54.8	18.3 R	540
E86365		C2000 01 11.91817	06 56 49.47	+01 26 25.5		540
E86365		C2000 01 11.92488	06 56 48.30	+01 26 58.3		540
J99XK7N		C2000 01 13.90122	08 08 00.07	+40 50 38.5	18.1 R	540
J99XK7N		C2000 01 13.90597	08 07 59.60	+40 50 41.6		540
J99XK7N		C2000 01 13.91036	08 07 59.22	+40 50 44.9		540
36183		C2000 01 14.75527	13 52 16.79	+80 18 04.0	18.7 R	540
36183		C2000 01 14.75770	13 52 17.52	+80 18 05.5		540
36183		C2000 01 14.76000	13 52 17.65	+80 18 08.5		540
36183		C2000 01 14.76238	13 52 18.18	+80 18 11.1		540
J99XK7N		C2000 01 14.82292	08 06 41.23	+41 00 59.0	18.3 R	540
J99XK7N		C2000 01 14.82778	08 06 40.84	+41 01 02.6		540
J99XK7N		C2000 01 14.83241	08 06 40.46	+41 01 05.5		540
J98SC1N		C2000 01 07.95521	09 03 22.60	+15 17 44.5	18.2 R	540
J98SC1N		C2000 01 07.96024	09 03 22.33	+15 17 45.4		540
J98SC1N		C2000 01 07.96505	09 03 22.12	+15 17 45.6		540
J98SC1N		C2000 01 07.98299	09 03 21.42	+15 17 47.5		540
J98SC1N		C2000 01 07.98877	09 03 21.16	+15 17 48.2		540
J98SC1N		C2000 01 07.99352	09 03 20.96	+15 17 48.9		540
J99T16X		C2000 01 14.75527	13 52 16.79	+80 18 04.0	18.7 R	540
J99T16X		C2000 01 14.75770	13 52 17.52	+80 18 05.5		540
J99T16X		C2000 01 14.76000	13 52 17.65	+80 18 08.5		540
J99T16X		C2000 01 14.76238	13 52 18.18	+80 18 11.1		540
J99Y03F		C2000 01 14.72049	07 02 04.44	+38 48 34.7	17.7 R	540
J99Y03F		C2000 01 14.72315	07 02 03.91	+38 48 22.2		540
J99Y03F		C2000 01 14.72558	07 02 03.44	+38 48 11.3		540
J99Y03F		C2000 01 14.72807	07 02 02.95	+38 47 59.6		540
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26355	C2000 04	20.82263	12 44 09.57	+13 47 49.0	17.2 R	540
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MYOB11	C2000 04	22.91368	11 31 41.46	+07 27 27.2		540
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K00GE7V	C2000 04	22.93822	17 31 58.03	+02 57 26.2		540
K00GE7V	C2000 04	22.94098	17 31 58.99	+02 57 24.1		540
K00E70V	C2000 04	23.85580	11 32 00.03	+07 18 11.2	20.4 R	540

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J98Q51K	C2000 04 25.87743	09 04 31.55	+14 52 30.4		540
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MYRA05 *	C2000 08 12.04010	03 46 04.68	+16 35 34.5	19.3 R	540
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MYRA05	C2000 08 13.08519	03 47 53.13	+16 39 37.2	18.9 R	540
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15817	C2000 08 20.83150	16 26 49.26	-01 20 40.7		540
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MY0020	C2000 09 09.03368	02 47 17.93	+20 45 49.0		540
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MY0020	C2000 09 10.04905	02 47 12.08	+20 50 47.4	19.6 R	540
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MY0020	C2000 09 10.05995	02 47 12.00	+20 50 50.9		540
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H40946	C2000 09 24.85868	22 46 49.16	+08 04 07.8		540
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K00S08J	C2000 09 24.86389	21 33 47.18	+14 31 01.7	18.6 R	540
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K00S10M	C2000 09 26.81806	22 09 40.04	+13 44 48.6		540
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K03C20P	C2004 03 17.76403	01 42 57.40	+04 05 17.9	17.4 R	540
K03C20P	C2004 03 17.76731	01 42 58.56	+04 05 27.4	17.2 R	540
K03X22B	C2004 03 17.79999	03 43 17.84	+65 59 18.3	20.5 R	540
K04E00B	C2004 03 28.80203	10 47 38.34	+32 36 26.7	19.3 R	540
K04E00B	C2004 03 28.80926	10 47 37.58	+32 36 23.4	19.6 R	540
K04E00B	C2004 03 28.81650	10 47 36.73	+32 36 20.1	19.4 R	540
K04F11H	C2004 03 31.12377	17 47 42.92	-09 18 23.2	19.4 R	540
K04F11H	C2004 03 31.13104	17 47 44.18	-09 18 12.9	19.4 R	540
K03C20P	C2004 03 31.78133	02 56 19.43	+15 30 34.4	18.2 R	540
K03C20P	C2004 03 31.78391	02 56 20.27	+15 30 41.6	18.1 R	540
K03C20P	C2004 03 31.78648	02 56 21.10	+15 30 48.9	18.4 R	540
K04C20P	C2004 03 31.78391	02 56 20.27	+15 30 41.6	18.1 R	540
02813	C2004 03 31.78004	02 56 30.75	+15 33 37.7	16.8 R	540
02813	C2004 03 31.78392	02 56 31.10	+15 33 38.4	16.6 R	540
02813	C2004 03 31.78776	02 56 31.46	+15 33 39.3	16.7 R	540
K04F31Y	C2004 04 02.79828	14 28 07.24	+65 30 19.2	17.5 R	540
K04F31Y	C2004 04 02.80359	14 28 15.99	+65 30 47.3	17.4 R	540
K04F31Y	C2004 04 02.80889	14 28 24.65	+65 31 14.6	17.3 R	540
K02P60W	C2004 04 08.81039	10 15 31.22	+14 28 26.6	20.3 R	540
K02P60W	C2004 04 08.86162	10 15 30.74	+14 28 09.6	20.6 R	540
K04E20O	C2004 04 08.81039	10 15 28.60	+14 22 27.0	20.9 R	540
K04E20O	C2004 04 08.86162	10 15 29.63	+14 23 05.5	21.2 R	540
K04B00B	C2004 04 16.80760	01 18 50.03	+82 30 38.8	19.4 R	540
K04B00B	C2004 04 16.82771	01 18 25.06	+82 31 10.3	19.9 R	540
K04B86J	C2004 04 16.86043	07 41 24.75	+59 21 44.1	19.9 R	540
K04B86J	C2004 04 16.87547	07 41 28.57	+59 21 54.9	20.3 R	540
K04G14Z	C2004 04 17.79937	13 45 33.38	+29 12 16.0	19.1 R	540
K04G14Z	C2004 04 17.80823	13 45 37.00	+29 13 12.0	19.3 R	540
K04G14Z	C2004 04 17.81707	13 45 40.61	+29 14 07.8	19.5 R	540
K04G09U	C2004 04 18.79821	09 46 10.03	+43 20 54.7	19.1 R	540
K04G09U	C2004 04 18.80547	09 46 08.46	+43 20 22.7	19.3 R	540
K04G09U	C2004 04 18.81270	09 46 06.86	+43 19 50.0	19.4 R	540
K04B11G	C2004 04 21.81765	04 02 30.33	+71 29 44.7		540
K04B11G	C2004 04 21.82772	04 02 30.61	+71 30 07.3		540
K04B11G	C2004 04 21.83778	04 02 30.94	+71 30 30.7	19.1 R	540
K04H12G	C2004 05 04.83135	09 40 00.38	+73 26 40.8		540
K04H12G	C2004 05 04.84237	09 39 59.81	+73 28 14.0		540
K04H12G	C2004 05 04.85339	09 39 59.87	+73 29 47.9	21 R	540
K04J12P	C2004 05 20.90279	15 09 04.26	+01 03 23.2	20.7 R	540
K04F01Z	C2004 05 25.86222	06 23 54.72	+70 30 28.6	19.6 R	540
K04F01Z	C2004 05 25.87231	06 23 53.31	+70 30 44.5	19.5 R	540
K04J01O	C2004 05 30.85749	09 44 56.41	+35 10 04.3		540
K04J01O	C2004 05 30.86457	09 44 49.12	+35 09 10.0		540
K04J01O	C2004 05 30.87163	09 44 41.77	+35 08 13.1	19.6 R	540

Publikationen

Nachfolgend eine Zusammenfassung aller meiner bisherigen Publikationen.
Einerseits sind die sich unmittelbar aus den astrometrischen Arbeiten ergebenden Veröffentlichungen wiedergegeben.

Andererseits habe ich meine öffentlichen Arbeit, angefangen von Vorträgen über Aufsätze in diversen Fachzeitschriften bis hin zu Auftritten in den Medien zusammengefaßt.

Publikationen im Ausland

Abkürzungen: I.A.U.C. = International Astronomical Union Circular,-Cambridge / U.S.A. und M.P.E.C. = Minor Planet Electronical Circular,-Cambridge / U.S.A.:

Fette Schrift: Positionen in einem eigenen MPEC veröffentlicht
Standardschrift: Positionen im DOU (Daily Orbit Update) veröffentlicht

Positionen vom Kometen 1991a1 (Shoemaker-Levy): I.A.U.C. No. 5414 v. 26.12.1991

Positionen vom Kometen 1993e (Shoemaker-Levy 9): I.A.U.C. No. 5744 v. 3.4.1993

I.A.U.C. No. 5800 (International Astronomical Union Circular)-Cambridge / U.S.A. vom 22.5.1993: Periodic Comet Shoemaker-Levy 9 (1993e): „Almost 200 precise positions of this comet have been reported, about a quarter of them during the past month, notably from CCD images by S. Nakano and Kobayashi in Japan and by E. Meyer, E. Obermair and H. Raab in Austria. ...“. In diesem Circular wird erstmals in der Menschheitsgeschichte ein Zusammenstoß zweier Himmelskörper vorausgesagt (der erwähnte Komet mit Jupiter)

Positionen vom Kometen C/1995 O1 (Hale-Bopp): I.A.U.C. No. 6191 v. 26.7.1995

Positionen vom Kometen C/1998 U3 (Jäger): I.A.U.C. No. 7038 v. 25.10.1998

Positionen vom Kometen 141P (Machholz 2): I.A.U.C. No. 7299 v. 1.11.1999

Positionen vom Planetoiden 1993WD: M.P.E.C. 1993-X02 v. 13.12.1993; M.P.E.C. 1993-X05 v. 15.12.1993

Positionen vom Kometen 1993t = C/1993 X1 (Kushida-Muramatsu): M.P.E.C. 1994-A03 v. 6.1.1994

Positionen vom Planetoiden 1994AW1: M.P.E.C. 1994-B10 v. 25.1.1994

Positionen vom Kometen 1994i = C/1994 J2 (Kushida-Takamizawa): M.P.E.C. 1994-K04 v. 24.5.1994

Positionen vom Planetoiden 1994AH2: M.P.E.C. 1994-M08 v. 27.6.1994

Positionen vom Kometen 1994o = P/1994 P1 (Machholz 2): M.P.E.C. 1994-Q06 v. 22.8.1994

Positionen vom Planetoiden 1994RH: M.P.E.C. 1994-S05 v. 29.9.1994

Positionen vom Planetoiden 1995BL2: M.P.E.C. 1995-C15 v. 8.2.1995

Positionen vom Kometen C/1995 O1 (Hale-Bopp): M.P.E.C. 1995-P01 v. 1.8.1995; M.P.E.C. 1995-P02 v. 2.8.1995

Positionen vom Kometen C/1995 Y1 (Hyakutake): M.P.E.C. 1996-B06 v. 22.1.1996

Positionen vom Kometen C/1996 B1 (Szczepanski): M.P.E.C. 1996-C02 v. 7.2.1996

Positionen vom Kometen C/1996 B2 (Hyakutake): M.P.E.C. 1996-C06 v. 10.2.1996; M.P.E.C. 1996-F03 v. 19.3.1996

Positionen vom Planetoiden 1996JA1: M.P.E.C. 1996-K04 v. 18.5.1996; M.P.E.C. 1996- K06 v. 19.5.1996

Positionen vom Planetoiden 1996JG: M.P.E.C. 1996- K07 v. 19.5.1996

Positionen vom Planetoiden 1996PW: M.P.E.C. 1996- Q03 v. 21.8.1996

Positionen vom Planetoiden 1996XW1: M.P.E.C. 1996- X03 v. 10.12.1996

Positionen vom Planetoiden 1997BQ: M.P.E.C. 1997- C06 v. 10.2.1997

Positionen vom Planetoiden 1997CO5: M.P.E.C. 1997- C09 v. 11.2.1997

Positionen vom Planetoiden 1997BR: M.P.E.C. 1997- D04 v. 18.2.1997

Positionen vom Kometen P/1997 C1 (Gehrels): M.P.E.C. 1997- D06 v. 19.2.1997

Positionen vom Kometen C/1997 D1 (Müller): M.P.E.C. 1997- E01 v. 3.3.1997

Positionen vom Kometen C/1997 L1 (Zhu-Balam): M.P.E.C. 1997- L03 v. 12.6.1997

Positionen vom Planetoiden 1997PO: M.P.E.C. 1997- P10 v. 11.8.1997; M.P.E.C. 1997- R07 v. 6.9.1997

Positionen vom Planetoiden 1997VG: M.P.E.C. 1997- V06 v. 3.11.1997

Positionen vom Planetoiden 1997US9: M.P.E.C. 1997- V10 v. 4.11.1997

Positionen vom Planetoiden 1998BZ7: M.P.E.C. 1998- C06 v. 2.2.1998

Positionen vom Planetoiden 1998KJ9: M.P.E.C. 1998- L05 v. 2.6.1998

Positionen vom Kometen C/1998 K5 (Linear): M.P.E.C. 1998- L08 v. 3.6.1998

Positionen vom Planetoiden 1998MS2: M.P.E.C. 1998- M13 v. 22.6.1998; M.P.E.C. 1998- M16 v. 24.6.1998

Positionen vom Planetoiden 1998MN14: M.P.E.C. 1998- M29 v. 29.6.1998

**Positionen vom Planetoiden 1998ME3: M.P.E.C. 1998- M34 v. 1.7.1998; M.P.E.C. 1998- O12 v. 23.7.1998;
M.P.E.C. 1998- P21 v. 14.8.1998**

Positionen vom Planetoiden 1998MX5: M.P.E.C. 1998- O12 v. 23.7.1998; M.P.E.C. 1998- P20 v. 13.8.1998

Positionen vom Kometen C/1998 M4 (Linear): M.P.E.C. 1998- O23 v. 29.7.1998

Positionen vom Planetoiden 1998PG: M.P.E.C. 1998- Q01 v. 16.8.1998; M.P.E.C. 1998- R24 v. 13.9.1998

**Positionen vom Planetoiden 1998PB1: M.P.E.C. 1998- Q04 v. 17.8.1998; M.P.E.C. 1998- Q06 v. 19.8.1998;
M.P.E.C. 1998- R24 v. 13.9.1998**

Positionen vom Planetoiden 1998QR15: M.P.E.C. 1998- R25 v. 14.9.1998; M.P.E.C. 1998- U23 v. 25.10.1998

Positionen vom Planetoiden 1998SG2: M.P.E.C. 1998- S19 v. 22.9.1998

Positionen vom Planetoiden 1998SD15: M.P.E.C. 1998- S30 v. 25.9.1998

Positionen vom Planetoiden 1998RO4: M.P.E.C. 1998- S32 v. 26.9.1998

Positionen vom Planetoiden 1998PG: M.P.E.C. 1998- U07 v. 19.10.1998; M.P.E.C. 1998- U27 v. 28.10.1998

**Positionen vom Planetoiden 1998TT3: M.P.E.C. 1998- U25 v. 27.10.1998; M.P.E.C. 1998- V11 v. 9.11.1998;
M.P.E.C. 1998- Y21 v. 21.12.1998**

Positionen vom Kometen C/1998 U3 (Jäger): M.P.E.C. 1998- U26 v. 27.10.1998

Positionen vom Planetoiden 1998VN: M.P.E.C. 1998- V17 v. 12.11.1998

Positionen vom Planetoiden 1998VO M.P.E.C. 1998- V18 v. 12.11.1998

**Positionen vom Planetoiden 1998VR: M.P.E.C. 1998- V20 v. 12.11.1998; M.P.E.C. 1998- V27 v. 14.11.1998;
M.P.E.C. 1998- W37 v. 26.11.1998**

Positionen vom Planetoiden 1998VD31: M.P.E.C. 1998- W02 v. 16.11.1998

Positionen vom Planetoiden 1998WS: M.P.E.C. 1998- W14 v. 19.11.1998

Positionen vom Planetoiden 1998UT18: M.P.E.C. 1998- W25 v. 23.11.1998

**Positionen vom Planetoiden 1998WM: M.P.E.C. 1998- W37 v. 26.11.1998; M.P.E.C. 1998- X33 v. 12.12.1998;
M.P.E.C. 1999- A12 v. 9.1.1999**

Positionen vom Kometen C/1998 U5: M.P.E.C. 1998- W45 v. 30.11.1998

**Positionen vom Planetoiden 1998WZ6: M.P.E.C. 1998- X33 v. 12.12.1998; M.P.E.C. 1998- Y29 v. 25.12.1998;
M.P.E.C. 1999- A05 v. 4.1.1999; M.P.E.C. 1999- A12 v. 9.1.1999**

Positionen vom Planetoiden 1998XD9: M.P.E.C. 1998- Y03 v. 16.12.1998

Positionen vom Planetoiden 1998XB9: M.P.E.C. 1998- Y02 v. 16.12.1998

Positionen vom Planetoiden 1998XQ16: M.P.E.C. 1998- Y11 v. 18.12.1998

Positionen vom Planetoiden 1998XR16: M.P.E.C. 1998- Y12 v. 18.12.1998; M.P.E.C. 1998- Y30 v. 26.12.1998;
M.P.E.C. 1999- A05 v. 4.1.1999; M.P.E.C. 1999- A12 v. 9.1.1999; M.P.E.C. 1999- B13 v. 21.1.1999

Positionen vom Planetoiden 1998XS16: M.P.E.C. 1998- Y13 v. 18.12.1998

Positionen vom Planetoiden 1998XZ4: M.P.E.C. 1998- Y16 v. 19.12.1998

Positionen vom Planetoiden 1998YN1: M.P.E.C. 1998- Y16 v. 19.12.1998

Positionen vom Planetoiden 1998XA5: M.P.E.C. 1998- Y29 v. 25.12.1998; M.P.E.C. 1998- Y30 v. 26.12.1998;
M.P.E.C. 1998- Y32 v. 27.12.1998; M.P.E.C. 1998- Y42 v. 31.12.1998

Positionen vom Planetoiden 1999AF4: M.P.E.C. 1999- A20 v. 12.1.1999; M.P.E.C. 1999- B13 v. 21.1.1999;
M.P.E.C. 1999- B17 v. 25.1.1999

Positionen vom Planetoiden 1999AN10: M.P.E.C. 1999- B08 v. 18.1.1999

Positionen vom Planetoiden 1999AP10: M.P.E.C. 1999- B08 v. 18.1.1999

Positionen vom Planetoiden 1999AO10: M.P.E.C. 1999- B12 v. 20.1.1999; M.P.E.C. 1999- B17 v. 25.1.1999

Positionen vom Planetoiden 1999AQ10: M.P.E.C. 1999- B12 v. 20.1.1999; M.P.E.C. 1999- B18 v. 26.1.1999

Positionen vom Planetoiden 1999BJ8: M.P.E.C. 1999- D01 v. 16.2.1999

Positionen vom Planetoiden 1999CV3: M.P.E.C. 1999- D01 v. 16.2.1999; M.P.E.C. 1999- E07 v. 3.3.1999;
M.P.E.C. 1999- E24 v. 15.3.1999; M.P.E.C. 1999- F14 v. 18.3.1999

Positionen vom Planetoiden 1999CF9: M.P.E.C. 1999- F16 v. 20.3.1999

Positionen vom Planetoiden 1999GU3: M.P.E.C. 1999- H01 v. 17.4.1999

Positionen vom Planetoiden 1999JD6: M.P.E.C. 1999- K13 v. 20.5.1999

Positionen vom Planetoiden 1999JO8: M.P.E.C. 1999- K13 v. 20.5.1999; M.P.E.C. 1999- K36 v. 26.5.1999

Positionen vom Planetoiden 1999NW2: M.P.E.C. 1999- O05 v. 17.7.1999;

Positionen vom Planetoiden 1999HF1: M.P.E.C. 1999- P02 v. 2.8.1999;

Positionen vom Planetoiden 1999RB32: M.P.E.C. 1999- R30 v. 11.9.1999; M.P.E.C. 1999- R39 v. 13.9.1999;
M.P.E.C. 1999- S01 v. 16.9.1999

Positionen vom Planetoiden 1999ND43: M.P.E.C. 1999- R39 v. 13.9.1999; M.P.E.C. 1999- S03 v. 17.9.1999;
M.P.E.C. 1999- V01 v. 1.11.1999

Positionen vom Planetoiden 1999RK33: M.P.E.C. 1999- R39 v. 13.9.1999; M.P.E.C. 1999- S01 v. 16.9.1999;

Positionen vom Planetoiden 1999LF6: M.P.E.C. 1999- S03 v. 17.9.1999;

Positionen vom Planetoiden 1999US3: M.P.E.C. 1999- U37 v. 31.10.1999;

Positionen vom Planetoiden 1999TA10: M.P.E.C. 1999- V05 v. 2.11.1999;

Positionen vom Planetoiden 1999UG5: M.P.E.C. 1999- V09 v. 3.11.1999;

Positionen vom Kometen C/1999 U3: M.P.E.C. 1999- V17 v. 6.11.1999;

Positionen vom Planetoiden 1999VN6: M.P.E.C. 1999- V22 v. 8.11.1999;

Positionen vom Planetoiden 1999VU25: M.P.E.C. 1999- W07 v. 17.11.1999;
Positionen vom Planetoiden 1999RH27: M.P.E.C. 1999- W18 v. 21.11.1999;
Positionen vom Planetoiden 1999WZ: M.P.E.C. 1999- W27 v. 28.11.1999;
Positionen vom Planetoiden 1999XS35: M.P.E.C. 1999- X26 v. 13.12.1999;
Positionen vom Planetoiden 1999YG3: M.P.E.C. 1999- Y25 v. 26.12.1999; M.P.E.C. 2000- A24 v. 7.1.2000;
MPEC 2000-A49 v. 15.1.2000; M.P.E.C. 2000-B37 v. 30.1.2000
Positionen vom Planetoiden 1999VO11: M.P.E.C. 2000- A24 v. 7.1.2000;
Positionen vom Planetoiden 1999YC: M.P.E.C. 2000- A24 v. 7.1.2000;
Positionen vom Planetoiden 1999YR14: M.P.E.C. 2000- A24 v. 7.1.2000;
Positionen vom Planetoiden 2000AZ93: M.P.E.C. 2000- A34 v. 9.1.2000;
Positionen vom Planetoiden 1999TX16: M.P.E.C. 2000- A49 v. 15.1.2000;
Positionen vom Planetoiden 1999YF3: M.P.E.C. 2000- A49 v. 15.1.2000; M.P.E.C 2000-B37 v. 30.1.2000
Positionen vom Planetoiden 2000KC6: M.P.E.C. 2000- A49 v. 15.1.2000;
Positionen vom Planetoiden 2000AC6: M.P.E.C. 2000- B37 v. 30.1.2000
Positionen vom Planetoiden 2000KF6: M.P.E.C. 2000- B37 v. 30.1.2000;
Positionen vom Planetoiden 2000BM19: M.P.E.C. 2000- C21 v. 3.2.2000;
Positionen vom Planetoiden 2000CM33: M.P.E.C. 2000- C48 v. 12.2.2000;
Positionen vom Planetoiden 2000CE59: M.P.E.C. 2000- C48 v. 12.2.2000
Positionen vom Planetoiden 2000CF59: M.P.E.C. 2000- C48 v. 12.2.2000;
Positionen vom Planetoiden 2000CH59: M.P.E.C. 2000- C48 v. 12.2.2000;
Positionen vom Planetoiden 2000BE19: M.P.E.C. 2000- D32 v. 28.2.2000;
Positionen vom Planetoiden 2000BG19: M.P.E.C. 2000- D32 v. 28.2.2000;
Positionen vom Planetoiden 2000CE59: M.P.E.C. 2000- D32 v. 28.2.2000;
Positionen vom Planetoiden 2000AD6: M.P.E.C. 2000- D37 v. 29.2.2000;
Positionen vom Planetoiden 2000CR101: M.P.E.C. 2000- E01 v. 1.3.2000;
Positionen vom Planetoiden 2000CT101: M.P.E.C. 2000- E01 v. 1.3.2000; M.P.E.C. 2000- E36 v. 8.3.2000; M.P.E.C.
2002- P04 v. 2.8.2002;
Positionen vom Planetoiden 2000CL33: M.P.E.C. 2000- E17 v. 5.3.2000;
Positionen vom Planetoiden 2000DN1: M.P.E.C. 2000- E17 v. 5.3.2000;
Positionen vom Planetoiden 2000DM1: M.P.E.C. 2000- E60 v. 15.3.2000;
Positionen vom Planetoiden 2000ED14: M.P.E.C. 2000- E60 v. 15.3.2000;
Positionen vom Planetoiden 2000EE14: M.P.E.C. 2000- F15 v. 20.3.2000;
Positionen vom Planetoiden 2000EW70: M.P.E.C. 2000- F15 v. 20.3.2000; M.P.E.C. 2000- F38 v. 25.3.2000;
Positionen vom Planetoiden 2000ES70: M.P.E.C. 2000- F38 v. 25.3.2000;

Positionen vom Planetoiden 2000EE104: M.P.E.C. 2000- G02 v. 2.4.2000;
Positionen vom Planetoiden 2000GF2: M.P.E.C. 2000- H01 v. 16.4.2000;
Positionen vom Planetoiden 2000GP82: M.P.E.C. 2000- H01 v. 16.4.2000;
Positionen vom Planetoiden 2000GU127: M.P.E.C. 2000- H01 v. 16.4.2000; M.P.E.C. 2000- H20 v. 22.4.2000; M.P.E.C. 2000- J46 v. 12.5.2000;
Positionen vom Planetoiden 2000GV127: M.P.E.C. 2000- H20 v. 22.4.2000;
Positionen vom Planetoiden 2000GJ147: M.P.E.C. 2000- H29 v. 22.4.2000; M.P.E.C. 2000- H35 v. 27.4.2000; M.P.E.C. 2000- J46 v. 12.5.2000; M.P.E.C. 2000- K06 v. 18.5.2000;
Positionen vom Planetoiden 2000CQ101: M.P.E.C. 2000- H32 v. 24.4.2000;
Positionen vom Planetoiden 2000EV70: M.P.E.C. 2000- H32 v. 24.4.2000;
Positionen vom Planetoiden 2000GO82: M.P.E.C. 2000- H32 v. 24.4.2000;
Positionen vom Planetoiden 1999YK5: M.P.E.C. 2000- H35 v. 27.4.2000;
Positionen vom Planetoiden 2000DP107: M.P.E.C. 2000- H35 v. 27.4.2000;
Positionen vom Planetoiden 2000GV147: M.P.E.C. 2000- H38 v. 28.4.2000; M.P.E.C. 2000- K06 v. 18.5.2000;
Positionen vom Planetoiden 2000JH5: M.P.E.C. 2000- J26 v. 6.5.2000; M.P.E.C. 2000- K06 v. 18.5.2000;
Positionen vom Planetoiden 2000JF5: M.P.E.C. 2000- J24 v. 6.5.2000;
Positionen vom Planetoiden 2000JJ5: M.P.E.C. 2000- J27 v. 6.5.2000;
Positionen vom Planetoiden 2000JE5: M.P.E.C. 2000- J23 v. 6.5.2000; M.P.E.C. 2000- J46 v. 12.5.2000; M.P.E.C. 2000- K06 v. 18.5.2000;
Positionen vom Kometen C/2000J1: M.P.E.C. 2000- J30 v. 8.5.2000;
Positionen vom Planetoiden 2000JQ3: M.P.E.C. 2000- J41 v. 10.5.2000;
Positionen vom Planetoiden 2000JT66: M.P.E.C. 2000- J54 v. 14.5.2000; M.P.E.C. 2000- M26 v. 29.6.2000;
Positionen vom Planetoiden 2000HD74: M.P.E.C. 2000- J56 v. 15.5.2000;
Positionen vom Planetoiden 2000KA: M.P.E.C. 2000- K20 v. 25.5.2000;
Positionen vom Planetoiden 2000KB: M.P.E.C. 2000- K21 v. 25.5.2000;
Positionen vom Planetoiden 2000KO44: M.P.E.C. 2000- L12 v. 3.6.2000; M.P.E.C. 2000- L40 v. 12.6.2000;
Positionen vom Planetoiden 2000KP44: M.P.E.C. 2000- L13 v. 3.6.2000;
Positionen vom Planetoiden 2000LK: M.P.E.C. 2000- L14 v. 3.6.2000;
Positionen vom Planetoiden 2000LL: M.P.E.C. 2000- L15 v. 3.6.2000; M.P.E.C. 2000- L39 v. 11.6.2000; M.P.E.C. 2000- M26 v. 29.6.2000; M.P.E.C. 2000- N16 v. 8.7.2000; M.P.E.C. 2000- Q38 v. 31.8.2000
Positionen vom Planetoiden 2000KN44: M.P.E.C. 2000- L17 v. 4.6.2000;
Positionen vom Planetoiden 2000LM: M.P.E.C. 2000- L39 v. 11.6.2000;
Positionen vom Planetoiden 2000JZ8: M.P.E.C. 2000- N08 v. 4.7.2000;
Positionen vom Planetoiden 2000MU1: M.P.E.C. 2000- N14 v. 7.7.2000;
Positionen vom Planetoiden 2000NL10: M.P.E.C. 2000- O17 v. 23.7.2000;

Positionen vom Kometen C/1999S4: M.P.E.C. 2000- N15 v. 7.7.2000;
Positionen vom Planetoiden 1999TL12: M.P.E.C. 2000- P01 v. 1.8.2000;
Positionen vom Planetoiden 2000OG: M.P.E.C. 2000- P02 v. 1.8.2000; : M.P.E.C. 2000- P46 v. 11.8.2000;
Positionen vom Planetoiden 1998UL1: M.P.E.C. 2000- P11 v. 2.8.2000;
Positionen vom Planetoiden 2000NM: M.P.E.C. 2000- P12 v. 3.8.2000;
Positionen vom Planetoiden 2000NG11: M.P.E.C. 2000- P12 v. 3.8.2000;
Positionen vom Planetoiden 2000PN8: M.P.E.C. 2000- P45 v. 10.8.2000; : M.P.E.C. 2000- P47 v. 12.8.2000;
Positionen vom Planetoiden 2000OH: M.P.E.C. 2000- P47 v. 12.8.2000;
Positionen vom Planetoiden 2000OH8: M.P.E.C. 2000- Q16 v. 23.8.2000;
Positionen vom Planetoiden (15817): M.P.E.C. 2000- Q16 v. 23.8.2000;
Positionen vom Planetoiden 1999UG5: M.P.E.C. 2000- Q21 v. 25.8.2000;
Positionen vom Planetoiden 2000 PN9: M.P.E.C. 2000- Q24 v. 26.8.2000;
Positionen vom Planetoiden 2000 OL8: M.P.E.C. 2000- Q27 v. 27.8.2000;
Positionen vom Planetoiden 1994LW: M.P.E.C. 2000- R42 v. 10.9.2000;
Positionen vom Planetoiden 2000 RJ12: M.P.E.C. 2000- S46 v. 25.9.2000;
Positionen vom Planetoiden 2000 SJ8: M.P.E.C. 2000- S46 v. 25.9.2000;
Positionen vom Planetoiden 2000 SM10: M.P.E.C. 2000- S49 v. 25.9.2000; M.P.E.C. 2000-S66 v. 29.9.2000;
M.P.E.C. 2000-S71 v. 30.9.2000
Positionen vom Planetoiden 2000 SR43: M.P.E.C. 2000- S61 v. 28.9.2000;
Positionen vom Planetoiden 2000 SL: M.P.E.C. 2000- S66 v. 29.9.2000;
Positionen vom Planetoiden 2000 SB45: M.P.E.C. 2000- S71 v. 30.9.2000;
Positionen vom Planetoiden 2000 RD52: M.P.E.C. 2000- T05 v. 2.10.2000;
Positionen vom Planetoiden 2000 SV20: M.P.E.C. 2000- U02 v. 17.10.2000;
Positionen vom Planetoiden 2000 SO10: M.P.E.C. 2000- U11 v. 22.10.2000;
Positionen vom Planetoiden 2000 SR43: M.P.E.C. 2000- U11 v. 22.10.2000;
Positionen vom Planetoiden 2000 SG8: M.P.E.C. 2000- U16 v. 24.10.2000;
Positionen vom Planetoiden 2000 TK1: M.P.E.C. 2000- U16 v. 24.10.2000;
Positionen vom Planetoiden 2000 RV37: M.P.E.C. 2000- U23 v. 25.10.2000;
Positionen vom Planetoiden 2000 SF8: M.P.E.C. 2000- U23 v. 25.10.2000;
Positionen vom Planetoiden 2000 SJ8: M.P.E.C. 2000- U23 v. 25.10.2000;
Positionen vom Planetoiden 2000 SB25: M.P.E.C. 2000- U23 v. 25.10.2000;
Positionen vom Planetoiden 2000 UJ1: M.P.E.C. 2000- V38 v. 14.11.2000;
Positionen vom Planetoiden 2000 WM107: M.P.E.C. 2000- Y29 v. 22.12.2000;

Positionen vom Planetoiden 2000 WO148: M.P.E.C. 2000- Y29 v. 22.12.2000;
Positionen vom Planetoiden 2000 XJ44: M.P.E.C. 2000- Y44 v. 28.12.2000;
Positionen vom Planetoiden 2000 YJ11: M.P.E.C. 2001- A01 v. 1.1.2001;
Positionen vom Planetoiden 2000 YN29: M.P.E.C. 2001- A46 v. 12.1.2001;
Positionen vom Planetoiden 2000 YH66: M.P.E.C. 2001- A46 v. 12.1.2001;
Positionen vom Planetoiden 2000 YN29: M.P.E.C. 2001- A55 v. 15.1.2001;
Positionen vom Planetoiden 2000 WQ19: M.P.E.C. 2001- B01 v. 16.1.2001;
Positionen vom Planetoiden 2000 YM29: M.P.E.C. 2001- D04 v. 17.2.2001;
Positionen vom Planetoiden 2000 XG47: M.P.E.C. 2001- D08 v. 19.2.2001;
Positionen vom Planetoiden 2001 AO2: M.P.E.C. 2001- F08 v. 19.3.2001; M.P.E.C. 2001- H39 v. 26.4.2001
Positionen vom Planetoiden 2001 DF47: M.P.E.C. 2001- F08 v. 19.3.2001;
Positionen vom Planetoiden 2001 EC16: M.P.E.C. 2001- F35 v. 26.3.2001;
Positionen vom Planetoiden 2001 FR58: M.P.E.C. 2001- F50 v. 29.3.2001; M.P.E.C. 2001- G02 v. 2.4.2001;
M.P.E.C. 2001- G06 v. 3.4.2001;
Positionen vom Planetoiden 2001 FO32: M.P.E.C. 2001- G06 v. 3.4.2001;
Positionen vom Planetoiden 2001FR128: M.P.E.C. 2001- G06 v. 3.4.2001; M.P.E.C. 2001- G08 v. 4.4.2001;
M.P.E.C. 2001- G09 v. 5.4.2001;
Positionen vom Planetoiden 2001 FM129: M.P.E.C. 2001- G09 v. 5.4.2001; M.P.E.C. 2001- G20 v. 11.4.2001;
Positionen vom Planetoiden 2000 RJ34: M.P.E.C. 2001- G10 v. 6.4.2001;
Positionen vom Planetoiden 2000 RJ34: M.P.E.C. 2001- G10 v. 6.4.2001;
Positionen vom Planetoiden 2000 HB: M.P.E.C. 2001- H39 v. 26.4.2001;
Positionen vom Planetoiden 2000 GQ2: M.P.E.C. 2001- H40 v. 27.4.2001;
Positionen vom Planetoiden 2000WL63: M.P.E.C. 2001- H43 v. 28.4.2001;
Positionen vom Planetoiden 2001FR128: M.P.E.C. 2001- H43 v. 28.4.2001;
Positionen vom Planetoiden (24475): M.P.E.C. 2001- H43 v. 28.4.2001;
Positionen vom Planetoiden 2001HZ7: M.P.E.C. 2001- J1 v. 1.5.2001;
Positionen vom Planetoiden 2001HW15: M.P.E.C. 2001- J1 v. 1.5.2001;
Positionen vom Planetoiden 2001JH5: M.P.E.C. 2001- J26 v. 13.5.2001;
Positionen vom Planetoiden 2001HZ7: M.P.E.C. 2001- J27 v. 13.5.2001;
Positionen vom Planetoiden 2001JM1: M.P.E.C. 2001- J30 v. 14.5.2001;
Positionen vom Planetoiden 2000GX127: M.P.E.C. 2001- J32 v. 15.5.2001;
Positionen vom Planetoiden 2001JV1: M.P.E.C. 2001- L01 v. 1.6.2001;
Positionen vom Planetoiden 2001KR1: M.P.E.C. 2001- L27 v. 8.6.2001;
Positionen vom Planetoiden 2001KA67: M.P.E.C. 2001- L27 v. 8.6.2001;

Positionen vom Planetoiden 2001KB67: M.P.E.C. 2001- L27 v. 8.6.2001;
Positionen vom Planetoiden 1999YA: M.P.E.C. 2001- M07 v. 19.6.2001;
Positionen vom Planetoiden 2001JV2: M.P.E.C. 2001- M37 v. 25.6.2001;
Positionen vom Planetoiden 2001MG1: M.P.E.C. 2001- M53 v. 29.6.2001;
Positionen vom Planetoiden 2001FF7: M.P.E.C. 2001- O01 v. 16.7.2001;
Positionen vom Planetoiden 2000OPH5: M.P.E.C. 2001- O44 v. 28.7.2001;
Positionen vom Planetoiden (3103): M.P.E.C. 2001- O44 v. 28.7.2001;
Positionen vom Planetoiden 2001OT: M.P.E.C. 2001- O53 v. 31.7.2001;
Positionen vom Planetoiden 2001OG25: M.P.E.C. 2001- O53 v. 31.7.2001;
Positionen vom Planetoiden 1998SU27: M.P.E.C. 2001- Q19 v. 19.8.2001;
Positionen vom Planetoiden 2001PM9: M.P.E.C. 2001- Q19 v. 19.8.2001;
Positionen vom Planetoiden 2001PK9: M.P.E.C. 2001- Q46 v. 25.8.2001;
Positionen vom Planetoiden 2001PM9: M.P.E.C. 2001- Q47 v. 26.8.2001;
Positionen vom Planetoiden 2001QP153: M.P.E.C. 2001- Q71 v. 30.8.2001;
Positionen vom Planetoiden 2001QP153: M.P.E.C. 2001- R09 v. 4.9.2001;
Positionen vom Planetoiden 2001QG142: M.P.E.C. 2001- R09 v. 4.9.2001;
Positionen vom Planetoiden 2001NZ1: M.P.E.C. 2001- S22 v. 22.9.2001;
Positionen vom Planetoiden 2001SJ262: M.P.E.C. 2001- T05 v. 5.10.2001; M.P.E.C. 2001-T57 v. 15.10.2001
Positionen vom Planetoiden 2001SA170: M.P.E.C. 2001- T05 v. 5.10.2001; M.P.E.C. 2001- U02 v. 16.10.2001;
Positionen vom Planetoiden 2001SE286: M.P.E.C. 2001- T20 v. 7.10.2001;
Positionen vom Planetoiden 2001SJ276: M.P.E.C. 2001- T05 v. 6.10.2001;
Positionen vom Planetoiden 2001RY47: M.P.E.C. 2001- T37 v. 12.10.2001;
Positionen vom Planetoiden 2001RE8: M.P.E.C. 2001- T43 v. 13.10.2001;
Positionen vom Planetoiden 2001SX269: M.P.E.C. 2001- T43 v. 13.10.2001;
Positionen vom Planetoiden 2001OE3: M.P.E.C. 2001- U25 v. 19.10.2001;
Positionen vom Planetoiden 2001UP: M.P.E.C. 2001- U26 v. 20.10.2001; M.P.E.C. 2001- U27 v. 21.10.2001;
Positionen vom Planetoiden 2001UU16: M.P.E.C. 2001- U54 v. 26.10.2001; M.P.E.C. 2001- U62 v. 27.10.2001;
Positionen vom Planetoiden 2001UF5: M.P.E.C. 2001- U62 v. 27.10.2001;
Positionen vom Planetoiden 2001UC5: M.P.E.C. 2001- U74 v. 31.10.2001;
Positionen vom Planetoiden 2001TY44: M.P.E.C. 2001- V20 v. 4.11.2001;
Positionen vom Planetoiden 2001UW16: M.P.E.C. 2001- V20 v. 4.11.2001;
Positionen vom Planetoiden 2001UG18: M.P.E.C. 2001- V21 v. 5.11.2001;
Positionen vom Planetoiden 2001UO27: M.P.E.C. 2001- V23 v. 5.11.2001;

Positionen vom Planetoiden 2001UP16: M.P.E.C. 2001- V36 v. 11.11.2001;
Positionen vom Planetoiden 2001SG286: M.P.E.C. 2001- V36 v. 11.11.2001;
Positionen vom Planetoiden 2001VB: M.P.E.C. 2001- V36 v. 11.11.2001; M.P.E.C. 2001- V45 v. 13.11.2001;
Positionen vom Planetoiden 2001SN289: M.P.E.C. 2001- W06 v. 16.11.2001;
Positionen vom Planetoiden 2001QB34: M.P.E.C. 2001- W25 v. 18.11.2001;
Positionen vom Planetoiden 2001RZ11: M.P.E.C. 2001- W25 v. 18.11.2001;
Positionen vom Planetoiden 2001WR5: M.P.E.C. 2001- X11 v. 2.12.2001;
Positionen vom Planetoiden 2001XP: M.P.E.C. 2001- X39 v. 11.12.2001;
Positionen vom Planetoiden 2001XU1: M.P.E.C. 2001- Y45 v. 25.12.2001;
Positionen vom Planetoiden 2001XQ31: M.P.E.C. 2001- Y45 v. 25.12.2001;
Positionen vom Planetoiden 2001XU30: M.P.E.C. 2001- Y52 v. 28.12.2001;
Positionen vom Planetoiden 2001XO88: M.P.E.C. 2002- A22 v. 6.1.2002;
Positionen vom Planetoiden 2001UV16: M.P.E.C. 2002- A22 v. 6.1.2002; M.P.E.C. 2002- F04 v. 17.1.2002;
Positionen vom Planetoiden 2002BG25: M.P.E.C. 2002- D02 v. 16.2.2002; M.P.E.C. 2002- C17 v. 3.2.2002;
M.P.E.C. 2002- C26 v. 6.2.2002;
Positionen vom Planetoiden 2002AC29: M.P.E.C. 2002- C17 v. 3.2.2002; M.P.E.C. 2002- C18 v. 4.2.2002;
Positionen vom Planetoiden 2002AO7: M.P.E.C. 2002- C26 v. 6.2.2002;
Positionen vom Planetoiden 2002CE: M.P.E.C. 2002- D02 v. 16.1.2002;
Positionen vom Planetoiden 2002CP4: M.P.E.C. 2002- D05 v. 17.2.2002;
Positionen vom Planetoiden 2002CV46 M.P.E.C. 2002- D08 v. 19.2.2002;
Positionen vom Planetoiden 2002CU46 M.P.E.C. 2002- E12 v. 5.3.2002;
Positionen vom Planetoiden 2002DO3 M.P.E.C. 2002- E12 v. 5.3.2002;
Positionen vom Planetoiden 2002CX58 M.P.E.C. 2002- E12 v. 5.3.2002;
Positionen vom Planetoiden 2001XY10 M.P.E.C. 2002- E17 v. 7.3.2002;
Positionen vom Planetoiden 2002CZ9 M.P.E.C. 2002- E17 v. 7.3.2002;
Positionen vom Planetoiden 2002EA M.P.E.C. 2002- E27 v. 10.3.2002; M.P.E.C. 2002- E41 v. 12.3.2002
Positionen vom Planetoiden 2002CF26 M.P.E.C. 2002- E42 v. 13.3.2002;
Positionen vom Planetoiden 2002EM6 M.P.E.C. 2002- E50 v. 14.3.2002; M.P.E.C. 2002- Q54 v. 31.8.2002;
Positionen vom Kometen C/2002 C1 M.P.E.C. 2002- F21 v. 18.3.2002;
Positionen vom Planetoiden 2002EN7 M.P.E.C. 2002- F25 v. 19.3.2002; M.P.E.C. 2002- F77 v. 31.3.2002;
Positionen vom Planetoiden 2002EQ9 M.P.E.C. 2002- F71 v. 29.3.2002;
Positionen vom Planetoiden 2002FB3 M.P.E.C. 2002- F76 v. 30.3.2002;
Positionen vom Planetoiden 2002EZ11 M.P.E.C. 2002- F77 v. 31.3.2002; M.P.E.C. 2002- G02 v. 2.4.2002;

Positionen vom Planetoiden 2002FC M.P.E.C. 2002- F77 v. 31.3.2002;
Positionen vom Planetoiden 2002FQ5 M.P.E.C. 2002- G02 v. 2.4.2002;
Positionen vom Planetoiden 2002FU5 M.P.E.C. 2002- G02 v. 2.4.2002;
Positionen vom Planetoiden 2002FA6 M.P.E.C. 2002- G02 v. 2.4.2002;
Positionen vom Planetoiden 2002FP5 M.P.E.C. 2002- G07 v. 3.4.2002;
Positionen vom Planetoiden 2002FQ4 M.P.E.C. 2002- G20 v. 5.4.2002;
Positionen vom Planetoiden 1999LT7 M.P.E.C. 2002- G29 v. 7.4.2002;
Positionen vom Kometen P/2002 AR2 M.P.E.C. 2002- G30 v. 7.4.2002;
Positionen vom Planetoiden 2002HE8 M.P.E.C. 2002- J12 v. 5.5.2002;
Positionen vom Planetoiden 2002JC M.P.E.C. 2002- J30 v. 9.5.2002; M.P.E.C. 2002- J53 v. 15.5.2002;
M.P.E.C. 2002- K73 v. 31.5.2002
Positionen vom Planetoiden 2002JD9 M.P.E.C. 2002- J38 v. 10.5.2002;
Positionen vom Planetoiden 2002JE9 M.P.E.C. 2002- J38 v. 10.5.2002;
Positionen vom Planetoiden 2002JX8 M.P.E.C. 2002- J48 v. 14.5.2002;
Positionen vom Planetoiden 2002JW15 M.P.E.C. 2002- J48 v. 14.5.2002;
Positionen vom Kometen C/2002K2 M.P.E.C. 2002- K18 v. 18.5.2002;
Positionen vom Kometen C/2002J5 M.P.E.C. 2002- K16 v. 18.5.2002;
Positionen vom Planetoiden 2002KF4 M.P.E.C. 2002- K73 v. 31.5.2002;
Positionen vom Planetoiden 1999KW4 M.P.E.C. 2002- K73 v. 31.5.2002;
Positionen vom Planetoiden 2002CW59 M.P.E.C. 2002- L01 v. 1.6.2002; M.P.E.C. 2002- N30 v. 9.7.2002
Positionen vom Planetoiden 2002JD109 M.P.E.C. 2002- L01 v. 1.6.2002;
Positionen vom Planetoiden 2002JA9 M.P.E.C. 2002- L02 v. 2.6.2002;
Positionen vom Planetoiden 2002LJ M.P.E.C. 2002- L04 v. 3.6.2002;
Positionen vom Planetoiden 2002LR24 M.P.E.C. 2002- L51 v. 11.6.2002; M.P.E.C. 2002- L56 v. 12.6.2002; M.P.E.C.
2002- L60 v. 13.6.2002; M.P.E.C. 2002- L64 v. 14.6.2002; M.P.E.C. 2002- L66 v. 15.6.2002
Positionen vom Planetoiden 2002LY45 M.P.E.C. 2002- M46 v. 29.6.2002;
Positionen vom Planetoiden 2002MY M.P.E.C. 2002- M46 v. 29.6.2002;
Positionen vom Planetoiden 2002MC M.P.E.C. 2002- M46 v. 29.6.2002; M.P.E.C. 2002- N21 v. 6.7.2002;
Positionen vom Planetoiden 2002MT1 M.P.E.C. 2002- M46 v. 29.6.2002; M.P.E.C. 2002- N21 v. 6.7.2002; ;
M.P.E.C. 2002- N35 v. 13.7.2002;
Positionen vom Planetoiden 2002LE31 M.P.E.C. 2002- M48 v. 30.6.2002;
Positionen vom Planetoiden 2001TE2 M.P.E.C. 2002- N21 v. 6.7.2002;
Positionen vom Planetoiden 2002MT3 M.P.E.C. 2002- N21 v. 6.7.2002;
Positionen vom Planetoiden 2001TC2 M.P.E.C. 2002- N30 v. 9.7.2002;

Positionen vom Planetoiden 2002EQ9 M.P.E.C. 2002- N31 v. 10.7.2002;
Positionen vom Planetoiden 1999VO6 M.P.E.C. 2002- N31 v. 10.7.2002;
Positionen vom Planetoiden 2002MP3 M.P.E.C. 2002- N35 v. 13.7.2002;
Positionen vom Planetoiden 1998MN14 M.P.E.C. 2002- O25 v. 20.7.2002;
Positionen vom Planetoiden 2002NY40 M.P.E.C. 2002- O31 v. 21.7.2002; M.P.E.C. 2002- O42 v. 29.7.2002;
M.P.E.C. 2002-Q19 v. 22.8.2002; M.P.E.C. 2002-S16 v. 17.9.2002;
Positionen vom Planetoiden 2000NL10 M.P.E.C. 2002- O36 v. 23.7.2002;
Positionen vom Planetoiden 2000PH5 M.P.E.C. 2002- O41 v. 28.7.2002; M.P.E.C. 2002- O42 v. 29.7.2002; ;
M.P.E.C. 2002- P01 v. 1.8.2002;
Positionen vom Planetoiden 2002NT7 M.P.E.C. 2002- O41 v. 28.7.2002; M.P.E.C. 2002- O42 v. 29.7.2002;
Positionen vom Planetoiden 1998WQ5 M.P.E.C. 2002- P07 v. 3.8.2002;
Positionen vom Planetoiden 1998XM4 M.P.E.C. 2002- P07 v. 3.8.2002;
Positionen vom Planetoiden 2002OS4 M.P.E.C. 2002- P16 v. 6.8.2002;
Positionen vom Planetoiden 2002PE130 M.P.E.C. 2002- Q19 v. 22.8.2002;
Positionen vom Planetoiden 2002QZ6 M.P.E.C. 2002- Q18 v. 21.8.2002;
Positionen vom Planetoiden 2002QD7 M.P.E.C. 2002- Q32 v. 24.8.2002;
Positionen vom Planetoiden 2000OK8 M.P.E.C. 2002- Q42 v. 29.8.2002;
Positionen vom Planetoiden 2002PO75 M.P.E.C. 2002- Q42 v. 29.8.2002;
Positionen vom Planetoiden 2002QE7 M.P.E.C. 2002- Q42 v. 29.8.2002;
Positionen vom Planetoiden 2001FA1 M.P.E.C. 2002- R09 v. 4.9.2002;
Positionen vom Planetoiden 2000GS146 M.P.E.C. 2002- R35 v. 8.9.2002;
Positionen vom Planetoiden 1998QE2 M.P.E.C. 2002- R39 v. 9.9.2002;
Positionen vom Planetoiden 2000SA10 M.P.E.C. 2002- R39 v. 9.9.2002;
Positionen vom Planetoiden 2000YH66 M.P.E.C. 2002- R39 v. 9.9.2002;
Positionen vom Planetoiden 2002PD130 M.P.E.C. 2002- R39 v. 9.9.2002;
Positionen vom Planetoiden 2000GC2 M.P.E.C. 2002- R41 v. 10.9.2002;
Positionen vom Planetoiden 1992SY M.P.E.C. 2002- R66 v. 13.9.2002;
Positionen vom Planetoiden 2001TW1 M.P.E.C. 2002- R78 v. 15.9.2002;
Positionen vom Planetoiden 2002SP M.P.E.C. 2002- S63 v. 30.9.2002;
Positionen vom Planetoiden 2002SZ M.P.E.C. 2002- T02 v. 2.10.2002;
Positionen vom Planetoiden 2002SR41 M.P.E.C. 2002- T17 v. 5.10.2002;
Positionen vom Planetoiden 2002TZ59 M.P.E.C. 2002- T54 v. 9.10.2002;
Positionen vom Planetoiden 1999SL5 M.P.E.C. 2002- T81 v. 15.10.2002;
Positionen vom Planetoiden 2002TR69 M.P.E.C. 2002- U34 v. 27.10.2002;

Positionen vom Planetoiden 2002TC60 M.P.E.C. 2002- U41 v. 29.10.2002;
Positionen vom Planetoiden 2002UL11 M.P.E.C. 2002- V44 v. 9.11.2002;
Positionen vom Planetoiden 2002VY94 M.P.E.C. 2002- W36 v. 24.11.2002;
Positionen vom Planetoiden 2002VU114 M.P.E.C. 2002- W36 v. 24.11.2002;
Positionen vom Planetoiden 2002SN M.P.E.C. 2002- X05 v. 2.12.2002;
Positionen vom Planetoiden 2002WQ4 M.P.E.C. 2002- X05 v. 2.12.2002;
Positionen vom Planetoiden 2002WP11 M.P.E.C. 2002- X52 v. 9.12.2002;
Positionen vom Planetoiden 2002VE95 M.P.E.C. 2002- X53 v. 9.12.2002;
Positionen vom Planetoiden 2001PK9 M.P.E.C. 2002- X62 v. 10.12.2002;
Positionen vom Planetoiden 2002XS14 M.P.E.C. 2002- X66 v. 11.12.2002;
Positionen vom Planetoiden 2002TC302 M.P.E.C. 2002- X65 v. 11.12.2002;
Positionen vom Planetoiden 2002XH4 M.P.E.C. 2002- X69 v. 13.12.2002;
Positionen vom Planetoiden 2002XG8 M.P.E.C. 2002- Y30 v. 21.12.2002;
Positionen vom Planetoiden 2002TY57 M.P.E.C. 2003- A16 v. 4.1.2003;
Positionen vom Planetoiden 2002FY4 M.P.E.C. 2003- A16 v. 4.1.2003; M.P.E.C. 2003- B10 v. 20.1.2003
Positionen vom Planetoiden 2002YH140 M.P.E.C. 2003- A66 v. 11.1.2003;
Positionen vom Planetoiden 2003AC23 M.P.E.C. 2003- B07 v. 18.1.2003;
Positionen vom Planetoiden 2003AJ73 M.P.E.C. 2003- B07 v. 18.1.2003;
Positionen vom Planetoiden 2003AC1 M.P.E.C. 2003- B08 v. 19.1.2003;
Positionen vom Planetoiden 2003AD1 M.P.E.C. 2003- B08 v. 19.1.2003;
Positionen vom Planetoiden 2003AM4 M.P.E.C. 2003- C18 v. 2.2.2003;
Positionen vom Planetoiden 2003WQ M.P.E.C. 2003- C19 v. 3.2.2003;
Positionen vom Planetoiden 2000DP107 M.P.E.C. 2003- C51 v. 10.2.2003;
Positionen vom Planetoiden 2003BL1 M.P.E.C. 2003- C51 v. 10.2.2003;
Positionen vom Planetoiden 2003BT35 M.P.E.C. 2003- C51 v. 10.2.2003; M.P.E.C. 2003- D35 v. 28.2.2003
Positionen vom Planetoiden 2003CC11 M.P.E.C. 2003- C51 v. 10.2.2003;
Positionen vom Planetoiden 2003CG11 M.P.E.C. 2003- C61 v. 14.2.2003;
Positionen vom Planetoiden 2001SN289 M.P.E.C. 2003- C67 v. 15.2.2003; M.P.E.C. 2003- D01 v. 19.2.2003;
Positionen vom Planetoiden 2003CP20 M.P.E.C. 2003- C67 v. 15.2.2003; M.P.E.C. 2003- D01 v. 19.2.2003;
Positionen vom Planetoiden 2003CO20 M.P.E.C. 2003- D01 v. 19.2.2003;
Positionen vom Planetoiden 2003CC M.P.E.C. 2003- D02 v. 20.2.2003;
Positionen vom Planetoiden 2003CY18 M.P.E.C. 2003- D02 v. 20.2.2003;
Positionen vom Planetoiden 2003BA21 M.P.E.C. 2003- D30 v. 27.2.2003;

Positionen vom Planetoiden 2003BQ35 M.P.E.C. 2003- D30 v. 27.2.2003;
Positionen vom Planetoiden 2003CR20 M.P.E.C. 2003- E01 v. 1.3.2003;
Positionen vom Planetoiden 2003DG6 M.P.E.C. 2003- E01 v. 1.3.2003;
Positionen vom Planetoiden 2003EH1 M.P.E.C. 2003- E42 v. 11.3.2003;
Positionen vom Planetoiden 2003EB50 M.P.E.C. 2003- F05 v. 18.3.2003;
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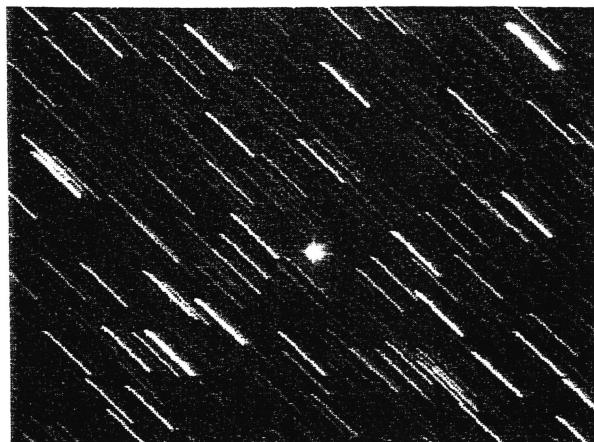
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Ing. Erich Meyer
Im Januar 2004

Aufnahmen mit 60cm-Teleskop, Privatsternwarte Davidschlag, IAU Code 540

Kleinplanet 2002 NY40

Siehe auch Titelblatt!
2002 08 18, 30s belichtet.
Apollo-Asteroid ca. 10mag,
ca. 600m. Minimalabstand
von der Erde 0,00352 AE.



Kleinplanet 2000 UK11

2000 12 02, 120s belichtet.
Aten-Asteroid ca. 18,4mag,
ca. 50m, Eigenbewegung
0,6° in der Stunde!
Der helle Stern 5,7mag ist
HIP 98844, fast außerhalb.

Kleinplanet 2001 EC16

2001 03 24, 30s belichtet.
Apollo-Asteroid, ca. 150m,
Minimalabstand 0,01 AE
von der Erde, Eigenbewe-
gung 0,9° in der Stunde!



Himmelskundliche Beobachtungen Hilfen-Instrumente-Ergebnisse

Wetter – Sonnenuhren angewandt – Jupiter – Dämmerungssterne – Sternstrahlung – Milchstraße – Kleinstrechner – Uraniasternwarte – Österreich-Montierung-Neu: 60cm Ø Teleskop – Teleskop-Steuerung.

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