

List of halo links (by Patrik Trncak)

Halos:

6° halo

http://www.somerikko.net/old/i_halo/SPF12_32a.jpg

9° halo (Van Buijsen halo)

<http://www.astro.helsinki.fi/~kahanpaa/halot/>

around Moon:

http://www.meteoros.de/ee31ee38/ee31_3.htm

12° halo

http://www.somerikko.net/old/i_halo/SPF12_32a.jpg

18° halo (Rankin halo)

<http://www.astro.helsinki.fi/~kahanpaa/halot/>

around Moon:

<http://halo.astronomie.cz/galerie/pyramid/002.jpg>

20° halo (Burney halo)

<http://www.astro.helsinki.fi/~kahanpaa/halot/>

around Moon:

(in book *Atmospheric halos only*)

22° halo (small halo)

<http://www.polarimage.fi/phenom/ha03521a.jpg>

around Moon:

http://www.photoastronomie.net/grand/halo_lune02.jpg

23° halo (Barkow halo)

<http://www.astro.helsinki.fi/~kahanpaa/halot/>

around Moon:

(photo not available)

24° halo (Dutheil halo)

<http://www.meteoros.de/halres/schnee.htm>

around Moon:

<http://www.ursa.fi/ursa/jaostot/halot/umi/1999/199page06.gif>

28° halo (Scheiner halo)

<http://www.iki.fi/mika.sillanpaa/ichalos>

35° halo (Feuillee halo)

<http://www.teknofokus.fi/Foto/Haloja/Halo10huhti.htm>

around Moon:

(photo not available)

46° halo (big halo)

<http://www.somerikko.net/halos/images/sp419.jpg>

Circumstribed halo

<http://www.sundog.clara.co.uk/halo/circim2.htm>

around Moon:

<http://www.rfleet.clara.net/gbh/haloes/hal07m.jpg>

Elliptical halos

http://epod.usra.edu/archive/images/ellipse_7.jpg

around Moon:

<http://www.kolumbus.fi/jukka.ruoskanen/Valoilmiot/slides/Elliptical%20halo.jpg>

Hevel halo

http://projekty.astro.cz/ukazy/obr/hevelius_c.jpg

Bouguer halo

http://www.ursa.fi/ursa/jaostot/halot/havaitseminen/opas/xi_hist.pdf

Bottlinger rings:

<http://www.astroclub->

[radebeul.de/analogfotos/atmosphaerisches/bottlinger_ring_1.html](http://www.astroclub-radebeul.de/analogfotos/atmosphaerisches/bottlinger_ring_1.html)

Parhelia:

9° parhelia:

- 9° upper parhelion

http://www.meteoros.de/phaeno/ph7_4.htm

around Moon:

(photo not available)

- 9° lower parhelion

<http://www.ursa.fi/~pvtmakel/halo/2002/110502/110502-07.jpg>

around Moon:

<http://www.ursa.fi/ursa/jaostot/halot/umi/2000/300fig04.gif>

18° parhelia

http://www.meteoros.de/ee62ee99/ee67_1.htm

around Moon:

www.kolumbus.fi/jimenez/photos/haloes.jpg

20° parhelia:

- 20° upper parhelion

(photo not available)

around Moon:

(photo not available)

- 20° lower parhelion

<http://www.ursa.fi/ursa/jaostot/halot/umi/1999/299page11.gif>

around Moon:

(photo not available)

22° parhelia

<http://www.meteoros.de/arten/ee02e.htm>

around Moon:

<http://www.spacew.com/gallery/image002746.jpg>

23° parhelia:

- 23° upper parhelion

<http://www.sundog.clara.co.uk/halo/lonearc.htm>

around Moon:

<http://www.ursa.fi/ursa/jaostot/halot/umi/2000/300fig04.gif>

- 23° lower parhelion

http://www.geocities.com/bowlturner/9_deg_halo.JPG

around Moon:

(photo not available)

24° parhelia:

- 24° upper parhelion

<http://www.asahi-net.or.jp/~cg1y-aytk/jpg/xlwsputhl020908-2m.jpg>

around Moon:

(photo not available)

- 24° lower parhelion

<http://www.ursa.fi/ursa/jaostot/halot/kuvat/i21riik65.jpg>

around Moon:

(in book Atmospheric halos only)

35° parhelia:

- 35° upper parhelion

(photo not available)

around Moon:

(photo not available)

- 35° lower parhelion

<http://www.ursa.fi/ursa/jaostot/halot/umi/1999/299page11.gif>

around Moon:

(in book Atmospheric halos only)

44° parhelia

http://www.teuva.fi/koulut/komsi/halot/halo8_t.jpg

120° parhelia (paranthenia)

<http://www.sundog.clara.co.uk/halo/120im1.htm>

around Moon:

http://www.somerikko.net/old/i_halo/kuuh001s.jpg

22° subparhelia

<http://www.sundog.clara.co.uk/halo/subpars.htm>

Liljequist parhelia

<http://www.sundog.clara.co.uk/halo/spanti.htm>

Liljequist subparhelia
(in book Atmospheric halos only)

Other suns:

Subsun

<http://www.sundog.clara.co.uk/halo/subpars.htm>

Submoon

<http://www.kolumbus.fi/jukka.ruoskanen/Uutta/Valoilmioita/Halos/Hyvinkaa%203-4.12.2004/slides/Katulamppu9.htm>

Anthelion

<http://www.ursa.fi/~pvtmakel/halo/2002/110502/110502-22.jpg>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0019.HTM

Subanthelion

<http://www.sundog.clara.co.uk/halo/antisol.htm>

Arcs:

9° tangent arcs:

<http://personal.inet.fi/koti/luuk/taivas/valok/kuvat03.html>

18° tangent arcs:

http://www.ursa.fi/~riikonen/halophotos2005/200805_Valkealampi4.html

20° tangent arcs:

http://www.ursa.fi/~riikonen/halophotos2005/200805_Valkealampi4.html

22° tangent arcs:

- 22° upper tangent arc

<http://www.sundog.clara.co.uk/halo/column.htm>

around Moon:

http://www.meteoros.de/halwo/mo_1.htm

- 22° lower tangent arc

<http://www.sundog.clara.co.uk/halo/subpars.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0023.HTM

24° tangent arcs:

<http://personal.inet.fi/koti/luuk/taivas/valok/kuvat04.html>

28° tangent arcs:

- 28° upper tangent arc

<http://www.iki.fi/mika.sillanpaa/ichalos>

- 28° lower tangent arc

<http://www.iki.fi/mika.sillanpaa/ichalos>

35° tangent arcs:

<http://www.ursa.fi/ursa/jaostot/halot/umi/2001/501fig01a.jpg>

Circumhorizont arc

<http://www.sundog.clara.co.uk/halo/chaim3.htm>

around Moon:

<http://www.spacew.com/gallery/image004384.html>

Circumzenithal arc

<http://www.sundog.clara.co.uk/halo/cza.htm>

around Moon:

http://www.meteoros.de/halwo/mo_2.htm

around artificial light:

<http://www.kolumbus.fi/jukka.ruoskanen/Uutta/Valoilmioita/Halos/Hyvinkaa%203-4.12.2004/slides/Katulamppu3.htm>

Subcircumzenithal arc

<http://www.sundog.clara.co.uk/halo/subhor.htm>

28° supralateral arc

<http://www.iki.fi/mika.sillanpaa/ichalos>

28° infralateral arc

<http://www.iki.fi/mika.sillanpaa/ichalos>

46° supralateral arc

http://www.engl.paraselene.de/html/supralateral_arc_dec_26__2004_.html

around Moon:

<http://www.spacew.com/gallery/image002746.jpg>

46° infralateral arc

http://www.meteoros.de/ee21ee24/ee22_2.htm

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0016.HTM

19° upper arc

<http://www.iki.fi/mika.sillanpaa/ichalos>

19° lower arc

<http://www.iki.fi/mika.sillanpaa/ichalos>

Heliac arc

<http://www.sundog.clara.co.uk/halo/spsun.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0007.HTM

Subhelic arc

<http://www.sundog.clara.co.uk/halo/spzenith.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0025.HTM

Anthelic arc

<http://www.sundog.clara.co.uk/halo/spzenith.htm>

Subanthelic arc

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0027.HTM

Parry arcs:

- 22° Parry arcs

<http://www.meteoros.de/englisch/ee27e.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0012.HTM

- 46° Parry supralateral arcs (upper Tape arcs)

<http://www.sundog.clara.co.uk/halo/spsun.htm>

around Moon:

(photo not available)

- 46° Parry infralateral arcs (lower Tape arcs)

<http://www.sundog.clara.co.uk/halo/spsun.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0014.HTM

- Parry athelic arcs

<http://www.sundog.clara.co.uk/halo/antisol.htm>

- Upper suncave Parry arc

<http://www.sundog.clara.co.uk/halo/prryim2.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0012.HTM

- Lower suncave Parry arc

<http://www.ursa.fi/ursa/jaostot/halot/umi/2004/sa604.html>

around Moon:

(photo not available)

- Upper sunvex Parry arc

<http://www.sundog.clara.co.uk/halo/prryim2.htm>

around Moon:

<http://www.astrode.de/halo3ok.jpg>

- Lower sunvex Parry arc

(in book Atmospheric halos)

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0019.HTM

Lowitz arcs:

- Upper Lowitz arc (Lowitz A)
http://www.meteoros.de/ee13ee18/ee14_3.htm
- Lower Lowitz arc (Lowitz B)
http://www.meteoros.de/ee13ee18/ee14_8.htm
- Circular Lowitz arcs (Lowitz C)
<http://www.photolib.noaa.gov/corps/images/corp1608.jpg>
- Reflection Lowitz arcs
<http://www.ursa.fi/ursa/jaostot/halot/umi/2002/202fig06.gif>
- Tilted Parry arc
<http://personal.inet.fi/koti/luuk/taivas/valok/kuvat07.html>
- Up Lowitz arc of Lowitz B
<http://www.glorie.de/Halo151005/image12.html>

Wegener arc

http://www.meteoros.de/ee39ee61/ee56_1.htm

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0019.HTM

Tricker arc

<http://www.atmos.washington.edu/~tcg/SPTrickerAres.jpg>

Hastings arc

<http://www.sundog.clara.co.uk/halo/spanti.htm>

Greenler arc

<http://www.sundog.clara.co.uk/halo/spanti.htm>

around Moon:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/PIDX0019.HTM

Moilanen arc

http://meteoros.de/phaeno/ph8_1.htm

around Moon:

<http://www.astrode.de/halo3ok.jpg>

Kern arc

http://www.ursa.fi/ursa/jaostot/halot/havaitseminen/opas/xi_hist.pdf

Blake arc

http://www.ursa.fi/ursa/jaostot/halot/havaitseminen/opas/xi_hist.pdf

Arctowski arc

http://www.ursa.fi/ursa/jaostot/halot/havaitseminen/opas/xi_hist.pdf

Circles:

Parhelic circle

<http://www.polarimage.fi/phenom/ha01822b.jpg>

around Moon:

<http://mvas.org/gallery/trost/circle02.jpg>

Subparhelic circle

<http://www.sundog.clara.co.uk/halo/antisol.htm>

Other:

Pillars:

Sun pillar

<http://www.sundog.clara.co.uk/halo/pillar.htm>

Lunar pillar

<http://www.spacew.com/gallery/image002928.jpg>

Venus pillar

<http://www.sundog.clara.co.uk/halo/images1/vpill3sh.jpg>

Artificial light pillar

http://antwtrp.gsfc.nasa.gov/apod/image/0209/pillars_tape_big.jpg

Superparhelia

<http://www.ursa.fi/ursa/jaostot/halot/umi/2005/105fig06.jpg>

Upsuns

<http://www.ursa.fi/ursa/jaostot/halot/umi/2002/202fig15.gif>

Sun cross (parhelic circle with sun pillar)

<http://www.sundog.clara.co.uk/halo/spsun.htm>

Parhelion legs

<http://www.weatherpictures.50g.com/pictures/2002/11/03112002001.jpg>

Blue spot on parhelic circle

<http://www.glorie.de/Halo151005/image10.html>

120° parhelic pillar

<http://www.ursa.fi/~pvtmakel/halo/2002/110502rp/M120p.jpg>

Other halo links:

Czech links:

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

(Tomas Trzicky)

<http://www.webpark.cz/martinpoppek/>

(Martin Popek)

<http://halo.astronomie.cz> (Patrik Trncak)
<http://160.217.220.100/ajevy/> (Vladimir Odvarka)
<http://manak.wz.cz/> (Roman Manak)
<http://www.hala.unas.cz/> (Martin Jankovic)
<http://max.mysteria.cz/> (Martin Vilasek)
<http://www.kojan.kvalitne.cz/> (Jan Kondziolka)
<http://lorien.gymik.inplus.cz/www/fyzika/ojevy/> (Jan Hosnedl)
<http://www.fotoagrafika.wz.cz/jevy.htm> (Lukas Kosarek)
<http://www.astronomie.cz> (APO)

Videos:

<http://www.4elements-earth.de/beobachtungen/halos/20041026a.avi>
http://home.arcor-online.de/alexander.wuensche/astro_beob_8.htm
<http://www.parhelia.de/storm/2004/phase1.avi>
<http://www.parhelia.de/storm/2004/phase2.avi>
<http://www.sundog.clara.co.uk/halo/video1/moondogs.avi>
http://www.leo-2001.de/temp/20040822_ns.avi
<http://www.gwebspace.de/eppl/050605.mpg>
http://sf.indymedia.org/uploads/3-chemring_lowband.mov
http://www.deanmars.com/SunDog_Mac.htm
http://shelp.chess.cornell.edu/multimedia/starparties/stellafane2002/video/stella02_2.wmv
<http://mcba2.phys.unsw.edu.au/~mcba/spd4/MDiamondDust.wmv>
<http://mcba2.phys.unsw.edu.au/~mcba/spd4/MWindBlownIce.wmv>
http://www.invisiblemoose.org/site_material/Antarctica/Antarctica_CD/support/eric_movies/sundogs.mov

Lunar complex:

http://nyrola.jklsirius.fi/tmp/halot20041122/COMMON/100_FUJI/TIDX0001.HTM
<http://www.spacew.com/gallery/image002747.html>
http://www.weather-photography.com/Photos/photo.php?cat=photo_month&id=w-458-08
<http://www.astrode.de/HALO.HTM>
<http://www.photon-echoes.com/images/atmospheric-optics/halos/011705-1w.JPG>
http://www.harpoint-observatory.com/galerie/meteore_halos/grosses_halo.jpg
<http://www.astro-bilder.de/Seiten/Halo/halo-seiten/halo-72.html>
<http://www.teuva.fi/koulut/komsi/kuuhalot/>

South pole 1999:

<http://www.sundog.clara.co.uk/halo/spole.htm>
<http://www.usatoday.com/weather/antarc/ahalos.htm>
<http://tea.armadaproject.org/bowman/1.11.1999.html>

South pole halos:

<http://adelie.harvard.edu/ed/Journals/Jan28.html>
<http://www.sethwhite.org/aro%20and%20skylab.htm>
<http://www.photolib.noaa.gov/corps/corp1602.htm>
<http://pages.prodigy.net/cdkaminski/gallery.html>
<http://amanda.wisc.edu/kath/polepage/>

<http://home.wi.rr.com/astrophotography/Sundogsf.JPG>
<http://www-zeuthen.desy.de/~schlenst/pix/spole3.html>
<http://www.pluton.co.uk/andy/images/sundog.jpg>
<http://www.murkworks.net/~sarah/sundog.jpg>
<http://www.thepoles.com/images/arcticpics/2002002.jpg>

Big complex:

http://www.sundog.clara.co.uk/halo/stpete.htm	(Lowitz complex)
http://www.sundog.clara.co.uk/halo/p1820.htm	(Parry complex)
http://www.sundog.clara.co.uk/halo/alaska2.htm	(Alaska 1999)
http://www.meteoros.de/phaeno/phaeno1.htm	(Germany 1996)
http://www.meteoros.de/phaeno/phaeno2.htm	(Alpen 1996)
http://www.meteoros.de/phaeno/phaeno3.htm	(Ennstal 1997)
http://www.meteoros.de/phaeno/phaeno4.htm	(Oberwiesenthal 1997)
http://www.meteoros.de/phaeno/phaeno5.htm	(Vorarlberg 2001)
http://www.meteoros.de/phaeno/phaeno6.htm	(Oberwiesenthal 2001)
http://www.meteoros.de/phaeno/phaeno7.htm	(Schlagl 2001)
http://www.meteoros.de/phaeno/phaeno8.htm	(Hasliberg 2001)
http://www.ursa.fi/~pvtmakel/halo/2003/100503/	(Finland 2003)
http://www.ursa.fi/~pvtmakel/halo/2002/110502/	(Finland 2002)

Snow halos:

<http://astro.uchicago.edu/home/web/gd1/snowhalo.jpg>
http://students.washington.edu/srh13/SPole/SnowHalo_1.JPG
<http://www.meteoros.de/halres/schnee1.jpg>
<http://www.meteoros.de/halres/schnee2.jpg>
http://www.engl.paraselene.de/html/22o_halo_on_snow.html

Diamond dust halos:

<http://www.tetongravity.com/usergalleries/albums/userpics/10323/full%20snow%20halo.JPG>
<http://www12.ocn.ne.jp/~tsuha/diamond-dust.JPG>
<http://epod.usra.edu/archive/images/sundog26.jpg>
<http://projekty.astro.cz/ukazy/obr/pazout2.jpg>
<http://home.eduhi.at/member/nature/MET/HALO/diamonddust2002-01-05/diamonddust2002-01-05.htm>

Halo software:

<http://www.meteoros.de/halosky/halosky.htm>
<http://www.sundog.clara.co.uk/halo/downld.htm>

Ice crystals:

<http://www.suite101.com/files/topics/13646/files/icecrystals-ddust.gif>
<http://www.ems.psu.edu/~lno/Meteo437/Column1.jpg>
<http://www.ems.psu.edu/~lno/Meteo437/Ice8.jpg>
http://www.mmm.ucar.edu/science/cirrus/projects/ARM99/10May/data/10May_crystal.third.gif

Other – all pages with halos:

<http://www.sundog.clara.co.uk/atoptics/phenom.htm>
<http://www.meteoros.de/indexe.htm>
<http://www.allthesky.de/icecrystals.htm>
http://personal.inet.fi/luonto/kankaro/halo/april_2003/
http://www.stecf.org/~rfosbury/home/natural_colour/sky/halos/halos.html
<http://www.polarimage.fi/>
<http://www.capetownskies.com/halos.htm>
http://www.mvas.org/gallery_atmospheric01.html
http://home.arcor-online.de/alexander.wuensche/astro_beob_8.htm
<http://www.above-horizon.de/halo/>
<http://adm.frsund-gym.dk/~ma/halos/2003.html>
<http://www.ursa.fi/ursa/jaostot/halot/umi/index.html>
http://www.saunalahti.fi/maho8/halo_05042004.htm
<http://www.helsinki.fi/~eresmaa/harrast/halot/wegener.html>
<http://www.astro.helsinki.fi/~kahanpaa/halot/>
<http://www.teknofokus.fi/Foto/Haloja/Halo10huhti.htm>
<http://www.ursa.fi/~riikonen/soutpole.html>
<http://www.ursa.fi/~lvirta/resopake.html>
http://www.ernmphotography.com/Pages/AtmosOptics/AO_Galleries/HalosParhGal/Halos_Parhelias_Gallery.htm
<http://vjac.free.fr/icehalos/icehalos.html>
<http://adelie.harvard.edu/ed/Journals/Jan28.html>
<http://eno.joensuu.fi/koulut/yhessarysassa/projektit/uimaharju/halot/default.htm>
<http://www.ursa.fi/~pvtmakel/halo/2003/huhti2003/>
<http://www.somerikko.net/old/halos/index.html>
<http://www.teuva.fi/koulut/komsi/halot/>
<http://www.rfleet.clara.net/gbh/gbhindex.html>
http://www.webshots.com/search?tab=all&query=sundog&new=1&source=search_results_to_p
<http://www.mppmu.mpg.de/~rwagner/album/Lenggries/Halos/>
<http://www2.globetrotter.net/astroccd/ftp/diom/soleil/>
http://www.weatherquestions.com/What_causes_halos.htm
<http://yocchel.exblog.jp/>
<http://www.k3.dion.ne.jp/~tamasora/index.html>
<http://mo.atz.jp/>
<http://aerismemoria.web.infoseek.co.jp/AtmosphericOptics/AtmosphericOptics.htm>
<http://www.weatherpictures.nl/halo.html>
<http://www.kolumbus.fi/jukka.ruoskanen/Valoilmiot/Valoilmiosivu.htm>
<http://www.kolumbus.fi/miika.mikkola/valot.htm>
<http://www.kolumbus.fi/mikmae/pilvet/muut.htm>
<http://ahominet.temp.powweb.com/halot.htm>
http://www.myrskybongari.com/galleria/album.php?album_id=23parh
http://www.myrskybongari.com/galleria/album.php?album_id=halot
<http://arirosti.net/saa/kuvia.php?lang=fin&tila=halo>
<http://www.myrsky.com/gallery/Halot>
http://www.kolumbus.fi/jari.luomanen/x-ilmakeha/atmosphere_multihalo00009.html
<http://climate.gi.alaska.edu/brian/sundog.html>
<http://www.knmi.nl/voorl/nader/eeneeuwhalowaarnemingen.htm>

<http://www.uranian.be/sterrenkunde/waarnemen/optischeverschijnselen.php>
<http://www.weerfotograaf.com/index.htm?http://weerfotograaf.com/HaloOverzicht.htm>
<http://www.astroclub-radebeul.de/analogfotos/atmosphaerisches/>
http://www.renewinternaturfotos.de/pageID_674817.html
<http://www.astro.washington.edu/kress/HALO/halo.html>
<http://www.amanda.wisc.edu/rschwarz/2003/pix/sundog/sundog.html>
<http://www.kolumbus.fi/jukka.ruoskanen/Uutta/Valoilmoita/Halos/Uutta.htm>
<http://www.ursa.fi/~riikonen/halophotos2005/halophotos2005.html>
http://www.pbase.com/wolfgang_gratzl/sundogs
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