

Object	Date	Time	Seeing	Trans.	Location	Equipment	Altitude	Description
<b>Objects South of -65°</b>								
NGC 104	4/2/2016	20:12	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - Nice. Fills FOV. Tight, bright core and rest of stars not so tight. Stars radiate out from core and circular in shape. Has become my favorite globular.
NGC 292	4/2/2016	20:23	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	8x50 Binoculars	20°	A dim basic oval with 3 brighter knots to right and dim patch above separated from main glow
NGC 330	4/2/2016	20:36	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - A very tight grouping of dim stars. Can't count but see mottling of stars.
NGC 346	4/2/2016	20:39	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - 10-15 faint stars form radial lines of stars, circular in shape. Faint circular glow under this. DSF shows glow better. Radial lines basic plus shape with a couple of more lines.
NGC 362	4/2/2016	20:45	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - A medium round globular with small, bright core and dims slowly to halo. Tons of member stars seen.
NGC 371	4/2/2016	20:47	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - A small, roundish, very faint OC. Member stars easily seen yet so faint, hard to count. Maybe 10-15 stars or so.
NGC 419	4/2/2016	20:58	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - A small, round glow. Dim. Maybe a hare brighter core. But pretty uniformly lit. No member stars seen.
NGC 1313	4/7/2016	19:07	OK	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	45°	187x - A long, fat, dim oval. Has very large, bright core down center. See mottling/texture on central core glow. Has thick, short, very dim glow above right hand side of oval and similar very dim thick short glow below left hand side. Nice.
NGC 1763 Group	4/1/2016	21:37	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - N1763 - A small, tall oval shape. 15-20 faint stars. N1776 - Below N1763 is a brighter star with bright nebula around it. N1773 - To the right of N1776 are 2 close stars with bright nebula glow around them.
NGC 1850 Group	4/1/2016	21:45	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - A nice round globular. Has bright core and dims slowly into halo with tons of member stars seen.
NGC 1955 Group	4/1/2016	21:49	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - N1955 - 6-10 stars. Dim. In long narrow shape. With UHC, see the N1972 nebula under it. 30 degrees high. N1968 - Above N1955 are 10 stars of 2 magnitudes in an arc and a bit away.
NGC 1962 Group	4/1/2016	21:53	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - Below N1955 and very near are 10-15 very faint stars of N1962. N1965 - With UHC, see a nebulosity under N1962. Round, small glow.
NGC 2070	4/2/2016	20:26	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	20°	187x - Nice. Clumps of nebula and star cluster in center of 10-15 faint stars in tight knot. Fills FOV nicely. DSF shows more nebula but still blotchy. O3 show less mottling. The loops of this nebula looks like the bio hazard symbol.
NGC 2074 Group	4/1/2016	21:58	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - Small. 3 brighter stars for a C shape with 2 dimmer in core with a nice nebula glow underneath.
NGC 3195	4/2/2016	21:54	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A small, dim, round uniformly lit glow. O3 shows it nicely. No central star seen.

NGC 4372	4/2/2016	23:28	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - To upper left of bright field star and touching is this large, dim globular. Central part uniformly lit and has lots of member stars. Very diffused. Almost fills whole FOV with this. Center has glow of many stars under it. Very loose.
NGC 4833	4/2/2016	23:44	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A nice, large, loose globular. Has larger core that dims slowly to edge. Has bright field star on edge at 7 o'clock on outer side of it.
NGC 5189	4/3/2016	00:14	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	40°	187x - With O3, a large, dim, circular glow with brighter arc from 1 o'clock thru center (bit brighter) then to 4 o'clock. Then at 9 o'clock is another hare brighter glow. Without O3, dimmer, but can see all the detail I did with O3 and a bright and dim field stars on glow but not in center.
NGC 6101	4/2/2016	01:22	Poor	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - Seeing is poor here. A larger, very dim glow. Has approx. 10 stars on glow I don't think are part of globular. Very hard to see any members.
NGC 6362	4/2/2016	01:28	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	45°	187x - A larger, dim globular, pretty uniformly lit. See tons of member stars. A vertical chain of brighter member stars on center of globular. Nice.

#### Objects South of -48°

Beta Tuc	4/6/2016	3:41	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	10°	125x - Beta1 Tuc - Almost horizontal looking at star as it came out of trees. A nice yellow-orange, bright star. Beta2 Tuc - Is approx. ½ the magnitude of Beta1 and same yellow-orange color and a bit away from Beta1.
NGC 1261	4/2/2016	21:06	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A medium sized, round, dim globular. Center large and uniformly lit and dims quickly at edge. Member stars easily seen.
NGC 1549/1553	4/1/2016	21:15	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - N1549 - A small, long cigar glow with larger, brighter core. N1553 - Between 2 field stars in same FOV. To upper left and near. A small, dim, round glow with larger, bright bar core.
NGC 1566	4/1/2016	21:17	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	30°	125x - A larger, fat oval. Dim halo glow with small, brighter core. Maybe spiral arm on top with dust lane. Core is a little bar with hint of CCW arms on top (easier to see) and bottom (a hint of arm).
NGC 2516	4/1/2016	22:01	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	60°	125x - A large circular group of 15-20 blue white stars of 3 magnitudes above a bright field star.
NGC 2547	4/1/2016	22:05	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	45°	125x - Very loose. Fills center of FOV. 25-30 blue white stars of a brighter and 3 dimmer magnitudes.
IC 2395	4/1/2016	22:17	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	45°	125x - A small, downward pointing triangle of 15-20 stars of 3 magnitudes.
NGC 2669	4/1/2016	22:24	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	60°	125x - A small, boxy OC of about 30 stars of a dim, dimmer and very faint magnitudes. Top is a double row of 15 stars. Middle is a line of 6 stars and bottom is 2 boxy groupings of rest.
NGC 2808	4/1/2016	22:24	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	45°	187x - A nice, large globular. Bright core that dims slowly to edge. Tons of stars seen. Fills FOV nicely.

NGC 3114	4/2/2016	21:49	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	60°	187x - Fills all FOV with lots of blue white stars and the much brighter field stars. Rest of stars of many magnitudes with faintest very faint.
NGC 3247	4/2/2016	22:27	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	70°	187x - 12 stars in 1 line and 7 in another form an X sitting on top of 2 knots of nebulosity with bigger knot to right of X. DSF doesn't show nebula any better.
NGC 3293	4/2/2016	22:36	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	70°	85x - A small, roundish, 25-30 brighter blue white stars with 1 red star amongst them. Of 3 magnitudes and under stars is a definite dim glow of nebula. 13mm shows it fills center of FOV nicely.
NGC 3324	4/5/2016	23:27	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	75°	187x - With DSF fills center of FOV. Nice, bright glow. Nebulosity pretty uniformly lit in main part.
NGC 3372	4/1/2016	20:42	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	45°	65x - A large glow in 3 parts. Has dark lane down center and lots of stars in area. Fills FOV. Has orange star on right part of glow that has a tiny halo glow to the right of it what makes it look odd.
IC 2602	4/2/2016	22:49	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	70°	65x - 20-25 bright blue white stars. Over 2 FOVs in size. Very scattered.
Keyhole Neb	4/1/2016	20:52	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	60°	203x - A dark nebula that snakes below Homoculus into Eta Carina. 1/3 FOV long and wide and dark. Like a ? on its side with top of ? in nebula.
NGC 3532	4/2/2016	22:55	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	75°	65x - A ton of blue white stars of approx. the same magnitude. Oval in shape with brighter stars to right. Goes 10 - 4 o'clock and fills FOV almost side to side.
NGC 3572	4/2/2016	23:00	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	75°	187x - A medium sized rhombus shape with 45 stars of several magnitudes with 1 bright star in upper left corner.
NGC 3766	4/2/2016	23:19	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	75°	137x - Cool. Tons of blue white stars of 5 magnitudes. Fills center of FOV nicely with a roughly circular shape. Tight grouping. Has 2 pale white bright stars in upper left and lower right of cluster.
IC 2944	4/2/2016	23:15	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	70°	137x - A ladder shaped OC with 50+ stars of 4 magnitudes in 2 lines. Top line straight and bottom line double lines of stars. Has 8 bright blue white stars and rest dimmer. Has 3 ladder rungs between lines
NGC 3918	4/1/2016	22:52	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	45°	187x - A small, round bluish glow. With tiny, brighter central star. With O3, doesn't show it any better.
Alpha Crux	4/1/2016	20:58	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	45°	125x - A nice bright double. Close. Both same magnitude.
NGC 4609	4/2/2016	23:34	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	80°	187x - A boxy cluster with 20-30 stars of 3-4 magnitudes. A bright field star is to right and shows nebulosity around it. Not obvious under cluster. The DSF shows a faint nebula glow from brighter field star to OC and under it nicely.
Coalsack	4/2/2016	23:40	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	80°	85x - A dark void 1 FOV wide and about 3 FOVs long. Has a few stars on it, in a star rich field. Right hand side has twin tail shape.

NGC 4755	4/1/2016	21:27	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	16" f/4 Newtonian	45°	125x - 3 brighter stars form outside of an A and 3 dimmer blue white stars form cross of A. Under the A are many dim, blue white stars of approx. the same magnitude in a larger, circular area. One of the stars of A bar is orange. Most of cluster to left side of A and A upside down. Fills center of FOV nicely. 50+ stars in compact OC.
NGC 4945	4/2/2016	23:50	Very Good	Very Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	80°	187x - A long, thin, dim glow. Center is fatter and has blotchiness on glow. Goes 11:30 – 4:30 o'clock. 2/3 FOV long and ends tapered to a point.
NGC 5286	4/2/2016	00:20	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	60°	187x - A medium sized, dim globular to lower left of a bright field star. Can see hint of member stars. A large, bright core that seems to favor left hand side of globular and flat cutoff on right hand side.
NGC 5281	4/2/2016	00:23	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	70°	187x - 20-25 stars surround a bright field star in center. Above the field star and to left of a field star, the stars form an X in 2 lines. Below and to right they form an arc. Fills center of FOV and somewhat compact.
NGC 5316	4/2/2016	00:27	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	60°	85x - 40+ dimmer, blue white stars of 3-4 magnitudes make an arrow head shape pointing at 3:30 o'clock. Small and compact.
Alpha Centauri	4/3/2016	23:19	OK	OK	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	60°	187x - 2 nice bright yellow stars. See separation between them but they are very close together. Upper right star 2x brighter than lower left.
NGC 5823	4/2/2016	00:41	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	45°	187x - A nice, tight, 50+ star OC with dimmer stars of 4 magnitudes with 4th very faint. Fills center of FOV.
NGC 5927	4/2/2016	00:45	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A medium sized, dimmer globular. Core area larger, uniformly lit, then dims quickly to edge. See mottling of member stars but not pinpoints.
NGC 5946	4/2/2016	00:48	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A very small, dim, pretty much uniformly lit glow. No stars seen. A field star is near it at 10 o'clock.
NGC 6025	4/2/2016	01:11	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	40°	187x - A ½ FOV tall and ¼ FOV wide shaped fire hydrant. 20-30 bright blue white stars of 3 magnitudes. Vertical in FOV.
NGC 6067	4/2/2016	01:14	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A tight, compact, roughly circular glow with 50+ blue white stars of 3-4 magnitudes. Stands out in star rich field.
NGC 6087	4/2/2016	01:18	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - 20+ stars form a thick block V with a much brighter stars on left hand side of V. Maybe 10 more stars to left of similar magnitude are part of this also.
NGC 6352	4/2/2016	01:28	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	45°	187x - A medium sized, dim, uniformly lit globular. Has mottling on glow of member stars. Several bright stars radiate out around edge which are probably not part of globular.
NGC 6397	4/2/2016	01:34	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	40°	187x - A large, fills FOV nicely. Has small brighter core that stops at diffused halo of member stars. Lots of members seen.
NGC 6744	4/2/2016	01:45	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A large (1/2 FOV long) tilted oval. Halo faint with larger, brighter core. Dim, but nice.

NGC 6752	4/2/2016	01:40	Good	Good	Near Coonabarabran, NSW AUS - Dark site.	18" f/4.5 Newtonian	30°	187x - A large globular with small, bright core on larger, dimmer halo. Faint members seen. 8-10 brighter members form curvy chains of stars that radiate from core.
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**Other Objects**

NGC 55	10/27/2008	22:40	OK	OK	Deer Trail, CO. Moderately dark sky.	12.5" f/8 Newtonian	10°	19mm – Large, dim, tilted oval. Large, uniformly lit core area surrounded by very dim halo. Goes from 8:30 to 2:30 o'clock in FOV. Approx 1 FOV long. Nice. Very low in south.
NGC 1291	1/21/2012	21:53	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	20°	134x - Very low along horizon. A large brighter oval. Has small, oval brighter core surrounded by lots of faint halo glow. A faint field star on lower part of halo glow.
NGC 1316	1/16/2009	19:42	OK	OK	Deer Trail, CO. Moderately dark sky.	12.5" f/8 Newtonian	20°	19mm – Small, dim, oval maybe circular glow. Central part bit brighter and hint of halo around it. Pretty dim and low in south so hard to see its exact shape.
NGC 1365	1/16/2009	19:38	OK	OK	Deer Trail, CO. Moderately dark sky.	12.5" f/8 Newtonian	20°	19mm – Small, round, pretty dim, uniformly lit glow.
NGC 1399	1/16/2009	19:35	OK	OK	Deer Trail, CO. Moderately dark sky.	12.5" f/8 Newtonian	20°	19mm – A brighter, circular glow with brighter central region.
NGC 1851	2/20/2004	18:52	OK	OK	Pawnee Grasslands. Moderately dark sky.	12.5" f/8 Newtonian	10°	19mm - This had a big, bright nucleus that dims quickly into a large, dim halo. Several member stars barely seen. I can tell it is speckled with lots of stars in the halo area. There is lots of atmosphere so the stars are not focusing to pinpoints down here. 10mm - Can see blobs that are the member stars easier. 19mm - Back to this eyepiece. I can see quite an extended halo. This GC is approx 1/4 FOV in diameter. Lots of member stars seen now.
NGC 2439	2/8/2008	20:42	Good	Good	Deer Trail, CO. Moderately dark sky.	12.5" f/8 Newtonian	20°	19mm - Nicely fills center of FOV. 40-50 stars, some very faint seen. Roughly circular in shape. A very bright star, much brighter than all others in this OC to bottom right, near edge of stars at 4 o'clock. Nice. Its small though. This is the last OC of the OC club I looked at. Class II 3 m.
NGC 3132	2/3/2005	23:10	Good	Good	John Martin State Park, CO. Moderately dark sky.	12.5" f/8 Newtonian	10°	19mm - Low on horizon, this is a neat planetary nebula. The central star stands right out and is surrounded by a soft, circular glow. Approx size of M57 but circular. OIII filter doesn't improve image.
NGC 3201	2/4/2005	0:03	Good	Good	John Martin State Park, CO. Moderately dark sky.	12.5" f/8 Newtonian	5°	19mm - Really low on the horizon in the south, just to the left of where the dam and horizon meet. Large glow with mottling on it. Hare brighter nucleus than halo. I need to see this again in a more southerly location. I might see 2-3 outlying member stars that are not part of the halo glow.
NGC 3621	4/26/2003	22:26	Good	Good	North Sterling State Park, CO. Moderately dark sky.	12.5" f/8 Newtonian	20°	19mm - Large and faint. This is low, on the SW horizon. Uniformly lit. Nestled inside 4 field stars that make a cross shape. Oval in shape.
NGC 5128	5/6/2005	2:08	OK	OK	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	30°	19mm - Saw dust lane. Fills 1/2 field of view. Top south lobe brighter than north. Faint field star centered in south lobe. <u>Very</u> faint star in west edge of dust lane.

NGC 5139	5/6/2005	2:08	OK	OK	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	20°	19mm - Many stars. Overfills FOV. Fairly round, uniformly lit. Looks like powder.
NGC 5986	5/11/2010	1:29	Good	Good	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	45°	19mm – A small round glow with lots of member stars seen on glow. Nice.
NGC 6231	5/6/2005	2:54	OK	OK	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	45°	40mm - Large, open cluster. Many bright, young stars. Swing scope through it to see all of it.
NGC 6250	5/11/2010	2:27	Good	Good	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	30°	19mm – Saw it in 8x50 Finder. About 20 stars of approx 4 magnitudes. Very loose and nicely fills center of FOV. Center part seems to have a glow of maybe more unseen stars.
NGC 6281	5/12/2010	4:13	Good	Good	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	45°	19mm – Boxy. Small. 20 blue-white stars form lines in this open cluster. All approx same magnitude. Then there are 10 more of a lesser magnitude mixed in. The lines of stars are cool.
NGC 6388	5/12/2010	4:08	Good	Good	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	30°	19mm – Small, dimmer, round. Has nice bright core which is small. Dims quickly into halo which is most of what is seen. No member stars seen, just combined glow of them.
NGC 6475	7/31/2008	22:12	Good	Good	Fox Park, WY. Very dark sky.	12.5" f/8 Newtonian	45°	32mm. Large open cluster. Fills FOV nicely. 15-30 blue-white stars of approx same magnitude. Very nice. Can see this also in 8x50 finder.
NGC 6723	5/6/2005	3:14	Good	Good	Texas Star Party. Very dark sky.	12.5" f/8 Newtonian	45°	19mm - Larger than NGC 6541 by 2 times. Yet its dim and uniformly lit. All of what can be seen is halo. Member stars easily seen.
NGC 7793	10/27/2008	22:37	OK	OK	Deer Trail, CO. Moderately dark sky.	12.5" f/8 Newtonian	20°	19mm – Large, fat oval or circular shaped uniformly lit glow. Dim, yet easy to see. Maybe a few very faint field stars on glow. It hints they are there.

Objects South of -65°	20	of 10
Objects South of -48°	40	of 20
Other Objects	20	of 20
Total Objects	80	of 50

Total Caldwell Objects Observed 9 of 110

Caldwell Silver Certificate #68 Received on July 9, 2004

See: <http://skinny.jeans.tripod.com/astronomy/CaldwellSilverCert.html>