

The One True Scale

1/200 scale model aircraft

Newsletter No 14

July 2014

www.the-one-true-scale.co.uk

Contact

Chris Sayer on

christopher.sayer@virgin.net

Or

chris.sayer@dcemail.com

Shed Models and Decals

This TOTS, like the last one, has been a while arriving because of delays caused by illness and problems funding new models. A lot of the content is about forthcoming models rather than new releases. There is also a once and only chance to get biplanes.

New models

To the Prop Pack (£10) I have added an Undercarriage Pack of about 90 assorted undercarriage parts for £20 and a Weapons Pack of about 60 assorted bombs, missiles, torpedoes and fuel tanks for £15. If I tell you that the cost of the moulds and initial castings was nearly £1000 you can see how hard it is for those of us producing models to cover costs.

The Meteor NF 11, 12, 13 and 14, Hunter F6 and F9 and Supermarine Walrus are being cast now and will be available when the decals are done. Wojtek has spent a lot of time making the Hunter and Walrus absolutely superb. Wojtek went to the RAF Museum to check details on the Walrus and found several errors on the plans used to make the master. Other plans have the same errors but the model will be correct. I know that many of you already have Walrus' from Helmet or X models but this one is a couple of generations on in terms of accuracy. I will send an email when they are available giving prices.

When (if) I have some return from these models I will then send the following for casting. Convair Sea Dart, Douglas Skylancer, Cessna 172, Saunders Roe SR N1 Hovercraft, Sikorsky S51/Westland Dragonfly.

The series after that will be DH 86 A and B Express, DH 83 Fox Moth, Cessna O2, Piaggio Pc7 and Bugatti 100 (by kind permission of Ron) and Short Shetland.

Beech Kansan and Boeing B17 are also waiting. Unfortunately all of these need sales of earlier models to make them possible.

Biplanes

Because no biplanes have achieved even reasonable sales I have accepted that the masters I have in hand will not go into production. If enough people are interested in a limited run of any particular model I will go ahead with that one. There will be no etched brass or decals (Shed Decals have all you will need). If you want one of a very limited number of any of the following, please let me know which ones immediately as this is a once only opportunity. If there is not enough interest in a particular model then I will paint the master and add it to my collection. These could become very rare and sought after.

Airco DH 16

Bristol F2B

Curtiss Jenny

Fairey Albacore

Fairey Gordon

Fairey IIIF float

Fairey IIIF wheel

Vickers Valentia

Vickers Victoria

Vickers Vildebeest

Vickers Vincent

Westland Wallace

Westland Wapiti float

Westland Wapiti wheel

If you are interested act now as this is a once and only opportunity to get a very rare model.

Decals

I have added several decal sets to the range. There is a set of Belgian markings with the thin blue outer ring and a set of Israeli markings without the outer circle for £6 each.

I have added two sets of British Civil markings to the range. A single sheet of black smaller size letters for £9 and a set of three consisting of the single sheet plus two more sheets of larger size letters for £15.

There is a two sheet set of French Civil Markings in black and dark blue (as used by Air France) for £12.

Shortly, (when some white decals arrive) there will be two sets of US marks and titles.

The first is for USAF and US ARMY and consists of three sheets in white, black and dull orange for £15.

The second is for US NAVY and MARINES and consists of three sheets in white, black and dull red for £15.

Other colours can be done for the USAF and USN sheets.

I am working on more sheets for Australian, New Zealand and Canadian markings and possibly some African Air Forces.

Carsten Breiting is sending an order for models to MPM shortly. If interested please contact him on cb@breitingagent.dk.

Also Frantisek Sazel has a growing range of resin models and can be contacted at Luzicka 10, 77900 Olomouc, Czech Republic. Frantisek does not use a computer and can only be contacted by post and be aware that he only accepts cash. This can be problem as post to the Czech Republic is not reliable and cash often goes astray.

Here are some pictures of models by Wayne Moyer using Ron's models.



Republic Rainbow



Consolidated Coronado



Happy Modelling
Chris

Shed Models

christopher.sayer@virgin.net or chris.sayer@dcemail.com

www.the-one-true-scale.co.uk

Photos of models are in the Gallery section

Driftwood, 8 The Green, Little Ellingham, Norfolk, NR17 1LT, 01953 850216

1/200 scale metal model aircraft kits. Kits include decals and many include etched brass parts and rubber tyres.

Airco DH 9a £18	Avro Bison II £20	Avro C30 Rota £15
Avro 504K £17	BAC TSR2 £22	Beech 18 float £18
Beech 18 ski £17	Beech 18 wheel £17	Blackburn Blackburn £20
Boulton Paul Overstrand £25	Boulton Paul Sidestrand £25	Bristol Belvedere £20
Bristol Sycamore £15	Bristol Sycamore BEA £15	Bristol 138a £22
DH Sea Vixen FAW1 £25 Fleet colours	DH Sea Vixen FAW 1 £25 Special colours	DH Sea Vixen FAW2 £25 Fleet colours
DH Sea Vixen FAW2 £25 Special colours	English Electric P1A £15	Fairey Long Range £22 Monoplane
Fairey Rotodyne £29	Fairey Rotodyne BEA £29	Fieseler Storch £16
Flying Flea £3	Fouga Magister £12	GA Jindivik/Pika £12
Handley Page £28 O/100 O/400	Hunting 126 £15	NA Mitchell B/C £19
NA Mitchell J £19	RE8 £18	Saro SR53 £15
Saro SR 177 £16	Scottish Aviation £16 Pioneer	Scottish Aviation £20 Twin Pioneer
Short SB4 Sherpa £12	Short SC1 £12	Short Seamew £16
Short Sturgeon £19	Sikorsky Hoverfly £15	Sikorsky Hoverfly £16 float
Sikorsky S55 early £18	Sikorsky S55 mid £18	Sikorsky S55 float £19
Supermarine £15 Spiteful/Seafang	Westland Walrus £20	Westland Whirlwind £18 early
Westland Whirlwind £18 Mid	Westland Whirlwind £18 BEA	Westland Whirlwind £18 turbine
NB Islander £19	NB Turbine Islander £19	NB Trislander £20

Postage for one kit is £3 UK and £4 rest of world. Larger numbers at cost, please enquire

PTO

FMC B450 tug £5	Coleman MB4 tug £5	Hafner Rotabuggy £6
Cub wheel and float £15	Super Cub wheel and float £15	North American B25H £19
Sikorsky H34/S58 Choctaw £20	Sikorsky S58T £20	Westland HSS-1 £20
Westland Wessex early nose £20	Westland Wessex late nose £20	Westland Welkin £18
Gloster Javelin £25	Saunders Roe Saro SR.A/1 £20	Leduc 021 £18
North American T28 Trojan/Fennec £18	Percival Pembroke £20	Prop pack £10 20+ assorted props
Postage £3 per kit UK, £4 rest of world. Multiple kits postage at cost.	Undercarriage pack £20 Approx 90 assorted u/cs	Weapons pack £15 Approx 60 bombs, missiles, tanks

Models being cast now

Armstrong Whitworth Meteor NF11, 12, 13, 14, Supermarine Walrus, Hawker Hunter F6, F9.

Next series for casting

Convair Sea Dart, Douglas Skylancer, Cessna 172, Saunders Roe SR N1 hovercraft, Sikorsky S51/Westland Dragonfly

Following series

DH 86A & B Express, DH Fox Moth, Cessna O2, Piaggio Pc7 and Bugatti 100, Short Shetland

Awaiting decision

Beech Kansan, B17

See newsletter for details about biplanes

Shed Decals - 1/200 scale

christopher.sayer@virgin.net or chris.sayer@dcemail.com

www.the-one-true-scale.co.uk

Driftwood, 8 The Green, Little Ellingham, Norfolk, NR17 1LT, 01953 850216

We are using a new way of supplying decals combining laser printed and waterslide decals. Laser printing is very accurate and avoids the registration problems that screen printing often has with small roundels and marking. The ink is waterproof so needs no top varnish and the decal is very thin. There are two problems. One is that white cannot be printed; the other is that the ink is not very opaque. They work well on white and silver surfaces but need a white backing for others.

In the shed system you buy the laser printed top decal but also buy waterslide white decals to use as a base. Again, these are very thin. On a light surface put down one layer of white then the top decal. On a dark surface or where the decal is over a colour boundary put down two layers. Even with three layers, two base and one top, the decals are so thin they can hardly be felt on the model surface. The total cost is less than that of a comparable full colour screen printed decal. The decal used here is so thin that on clear decal sheet it does not have to be cut closely to the markings as long as there is a final coat of varnish on the model.

White Base Sheets

Each white base sheet is A5 sized and has hundreds of decals.
Five are available at **£2.50 per sheet**.

98% round discs for roundels

110% round discs for roundels with white outer ring

Stars

Stars and bars

Modern Chinese stars and bars

Laser Printed Top Sheets

Each top sheet is letter size (11" x 8") and contains hundreds of markings.

<u>Decal type</u>	<u>Base sheets needed</u>	<u>Price</u>
RFC, RAF early (A, A1 and B type)	98% and 110% round	£12
RAF WWII (B, C, C1 type)	98% round	£12
RAF post war (D type)	98% round	£12
RAF 2 colour low viz	98% round	£12
RAF 2 and 3 colour very pale low viz	98% round	£12
SEAC (South East Asia Command)	98% round	£12
Japanese hinomarus (fresh & faded)	98% and 110% round	£12
French 3 colour	98% round	£12
French 4 colour (yellow outer)	98% round	£12
Belgian	98% round	£12
Spanish	98% round	£12
Italian post war and Co-Belligerent	98% round	£12
Italian WWII and ANR	Includes white base decals	£15
Luftwaffe WWII	Includes white base decals	£15
German WWI	Includes white base decals	£15
Soviet stars	Star base decals	£12
Chinese WWII, RCAF, PLAAF	Chinese stars and bars and 98% round	£12
US stars and bars	Stars and bars	£12
US pre stars and bars	98% round	£12
Commonwealth Air Forces	In preparation - needs 98% round	£?

Area decal sheets

Each top sheet is letter size (11" x 8") and contains hundreds of markings in many sizes.

<u>Countries</u>	<u>Base decals needed</u>	<u>Cost</u>
Sweden, Norway, Finland, Denmark	98% round	£12
Israel, Jordan, Egypt, Syria, Saudi Arabia	98% round	£12
India, Pakistan, Iran, UAE	98% round	£12
Austria, Netherlands, Czech, Switzerland	98% round	£12
Romania, Portugal, Ireland (3 versions)	98% round	£12
Argentina, Bolivia, Ecuador, Peru	98% round	£12
Greece, Turkey, Albania, Bulgaria	98% round	£12
Pacific WWII, BPF, NZ, Australia	98% round, stars and bars	£12
North and South Vietnam and Korea	98% round, stars and bars	£12

The middle east sheet is from the 6 day war period although only the Egyptian markings changed later. The North Vietnam markings have been changed very slightly to fit the stars and bars base decals. It would be unaffordable to do N Vietnam base decals.

Where there are fin flashes or markings these will be included printed on white decal paper and so will need to be cut out very accurately - scalpel and steel rule are ideal. This avoids doing expensive base decals for fin flashes that are small flag shapes.

Individual countries are available (see next page) but the most economical way to buy the decals is as area sheets as the individual countries are parts of the area sheets.

Don't forget to buy the appropriate base decals as well as the top sheets

National decal sheets

Most are a quarter of a regional sheet

Country	Base decals needed (extra)	Cost
Albania	98% round	£5
Argentina	98% round	£5
Australia WWII Pacific	98% round	£3
Austria	98% round	£5
Bolivia	98% round	£5
British Pacific Fleet WWII	Stars and Bars	£5
Bulgaria	98% round	£5
Czech	98% round	£5
Denmark	98% round	£5
Ecuador	98% round	£5
Egypt	98% round	£5
Finland	98% round	£5
Greece	98% round	£5
India	98% round	£5
Iran	98% round	£5
Ireland (3 versions)	98% round	£8
Israel	98% round	£5
Jordan	98% round	£5
Netherlands	98% round	£5
New Zealand WWII Pacific	Stars and Bars, 98% round	£8
North Korea	98% round	£5
North Vietnam	Stars and Bars	£5
Norway	98% round	£5
Pakistan	98% round	£5
Peru	98% round	£5
Portugal	98% round	£5
Romania	98% round	£5
Saudi Arabia	98% round	£5
South Korea	Stars and Bars	£5
South Vietnam	Stars and Bars	£5
Sweden	98% round	£5
Switzerland	98% round	£5
Syria	98% round	£5
Turkey	98% round	£5
UAE	98% round	£5

Smaller sheets (half size)

These are A5 size and have hundreds of marking in a wide range of sizes

<u>Countries</u>	<u>Base decals needed</u>	<u>Cost</u>
	Cost	
Poland	None - white decal paper	£6
Dutch East Indies	None - white decal paper	£6
Finland WWII	98% Round	£6
East Germany	None - white decal paper	£6
Indonesia	None - white decal paper	£6
Iraq 1931 - 2003	None - white decal paper	£6
Mexico	None - white decal paper	£6
Naval Anchors	None - fits on existing decal	£6
British Prototype markings	None - screen printed decals	£6
Romania WWII	None - white decal paper	£6
Belgium with blue ring	98% round	£6
Israel without blue ring	98% round	£6
Myanmar (Burma)	None - white decal paper	£6
Brazil	98% round	£6

When a marking is a straight edged geometric shape, as some above, it will be printed on white decal paper. These must be cut out very accurately.

Code letters and numbers

RAF WWII Set consists of well over a thousand characters on four sheets in five sizes and three font styles consisting of white base sheet and light grey, sky and dull red top sheets for **£15**

RAF Postwar Set consists of well over a thousand characters in five sizes on two sheets consisting of white base sheet and black top sheet for **£10**

Note. Other colours can be printed by request for either set. Please enquire about price.

UK Civil letters and numbers, black. Single sheet of smaller sizes **£9**. Set of three sheets including larger sizes **£15**.

French Civil Letters, black and blue sheets. **£12**.

USAF, Army letters, numbers and titles. Three sheets black, white and orange. **£15**.

US Navy, Marines letters, numbers and titles. Three sheets black, white, dull red. **£15**.

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Postage is £2 in UK or £3 rest of world for single sheet. Postage for larger numbers is at cost, please ask.

Cloudbreak Models

TOTS June 2014

Here at Cloudbreak, new models are in preparation for release later on in the year.

The first is the Grumman Albatross HU - 16 amphibian.

This was one of the four twin engine amphibians produced by Grumman, starting with the Widgeon, followed by the Goose, then the Mallard, and finally the Albatross.

Grumman had a reputation for rugged and reliable naval aircraft, and the Albatross was no exception. It had a long and successful career with many Air Forces and Navies worldwide.

Our version is the earlier HU - 16A / SA 16A.

Among the features will be detailed engines and landing gear, (including recessed main gear bays) and rubber mainwheel tyres.

We recently had the opportunity to view one of the few Albatrosses remaining, at the Italian Air Force Museum at Vigna di Valle. This excellent Museum is located at the southern end of Lake Bracciano, about 20 miles to the Northwest of Rome. The Museum was a flying boat base, dating back to pre WW2 days.

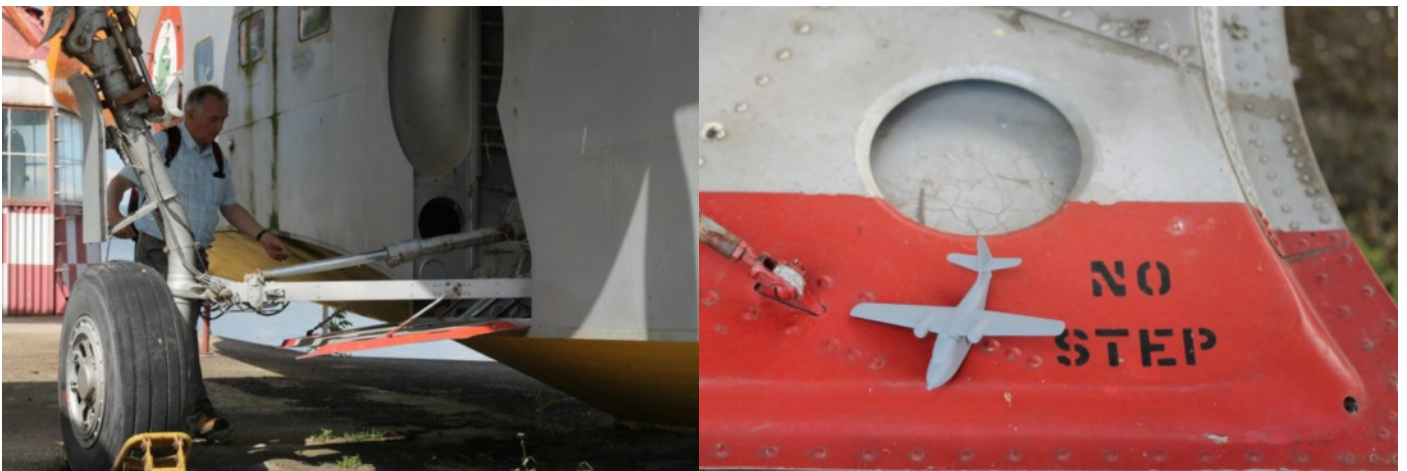
In fact, the last aircraft to use the Base were the Air - Sea Rescue Albatrosses of the Italian Air Force. (If you are ever in the Rome area on holiday, do not miss the opportunity to visit this Museum which houses many rare and unique aircraft.) More details about the Albatross and the other aircraft models will be made available at a later date.

Wishing you all the best for the summer,
Wojtek

No one checks details as thoroughly as Wojtek! He even took the master of the Albatross on holiday with him to compare with the example at the Italian Air Force Museum.



Wojtek checking that the Italians have got the full size one right



Oh no! This bolt is the wrong size. See how far we go to make sure you have the best and most accurate models.

METALMODELS

May 2014

In my previous 'TOTS' note last November, I reported that 2013 had been a busy time here. Well, the pace continues and it looks like production is still at around 100+ models annually. So thank you all again for your constant support in buying the models and also for your many kind emails and letters – both are a huge encouragement to plug away at model-making and it is always good to know that the models give such pleasure.

A recent milestone was to finally complete all outstanding orders, leaving me free to work on the new early jets project. Needless to say, late orders for models on the current list *are* trickling-in again and I will fit them in the schedule but later on – right now the jets have the priority.

As earlier announced, the first of the jets will be the F-80 Shooting Star, F-84 Thunderjet and F-86A Sabre. My original thoughts were that these could be simple, quick to build models, finished in plain silver with USAF makings. How wrong can you be! The late 1940s - early 1950s was an era of *very* colourful aircraft in the newly-formed United States Air Force and particularly in the fighter units. It soon became clear that rather more work would be needed in the transfer (decal) department to give these models authentic schemes. This led to much effort in identifying and drawing appropriate liveries this Spring, and with even more effort by my friend John King in translating my sketches into computer files for the printing-house.

Now, at last, the job is done and I am presently building the prototype models for photography, and to check the decals. Already it is clear that some printing corrections need to be made but these will not take too long – I hope!

I should also mention, pleading for your patience, that both John and Peter, our ace mould-maker and caster, have suffered illness this year, resulting in hospital stays which have delayed the work. Both are now up and about again, I'm delighted to say, and I am therefore hopeful that these new models can be released shortly – next month if all goes well.

I plan to issue a fully-detailed newsletter with photos and prices shortly. I will email this to all of you on my list in the usual way. It should arrive in your in-box by the end of July at the latest. If you have *not* received it by then please email me for an explanation!

Also, if you have changed your email address please tell me!

And, if you have not bought any models from me before, and thus are not on my list but may now be interested, please email me for details.

Thank you once more for your great support,

Derek.



**194 Grange Drive Swindon ,
Swindon SN3 4JZ,
United Kingdom**

Telephone: 01793 822277

Email: sales@helmet-aircraft-200.com

On-Line Store : <http://helmet-Aircraft-200.co.uk>

News from Helmet Aircraft 200

Models in Kit Format

We continue to offer our models in kit format all of which include decals , wheels and stores etc. as appropriate ,via our web-site although the variety of models is now somewhat depleted, and we have over 60 items from our portfolio which are unavailable, and await re-casting .

Further to this we have several new items which we have masters for including a number of Soviet Cold War jets, of which I believe most are currently not readily available elsewhere in the 1:200 scale , and also reworked North American Mustangs (B & D versions) and Bristol Blenheim's I & IV

Usually I would have no hesitation in sending the items in question from the above paragraphs for casting, but following the luke-warm interest from customers in the items we have had re-cast over the last two years in response to their enquiries asking when the models which are unavailable will be back in stock , I am somewhat hesitant in proceeding with this exercise at this point in time , and ask myself if there is a currently a genuine interest in such items in the 1:200 scale and is it worth the outlay of the costs associated with the casting process which is not cheap.

Finished Models

We have to date offered all of our products plus those of other suppliers as finished models as made to order, Whilst this has worked quite well it has meant that there is always a back-log of models to complete and lengthy delivery times, due to the limited resources we have. Further to this because we use a sophisticated web-site as our main trading channel to attract customers it does seem to give the misconception (certainly among some customers from outside the UK) that we are a high street style model shop rather than cottage industry model makers. This quite often leads to frustration in the fact the models customers have ordered are shipped as and when ready depending on our workload, which is usually 2-3 months, sometimes more , rather than their expectation of days

In view of the above I have come to the conclusion that we need to change this and whilst we shall do our utmost to fulfil all outstanding orders we have as soon as possible, we shall gradually change from supplying models as made to order to only offering short runs of very limited edition finishes that will be supplied off the shelf so to speak.

Further to this it is anticipated that as we not only have our own range of models but also the resources of other suppliers we shall be in a position to offer models which will be more collectable due to their exclusivity.

Finally if you would either like to comment or offer your views on the subjects within this document good or bad they would be most welcome and should be sent via email to paulhoward@Helmet-aircraft-200.com ,

Best Regards
Paul Howard

HBM 1:200 News – May 2014

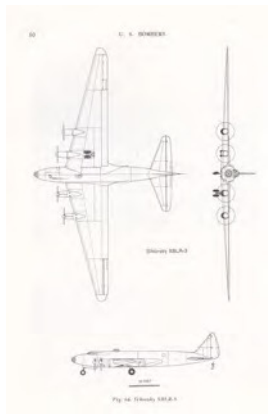
From Ron Crawford

Ron's Needs Department. I did not get much of a response to posting needs deep in the back pages, so this time I am starting off with them.

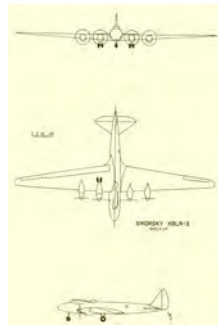
I need more copies of some of my old HBM models. I have been checking the extras I set aside for my own use and in several cases came up short. I don't know if I inadvertently sent them to other collectors or misfiled them before our move to Weybridge. Regardless I need additional examples of the following HBM types. Purchase or swap.

215	Beriev KOR-1
219	Keystone XB-1
262	Sikorsky S-43
265	Lockheed Electra 10
269	VS-22 Osprey
305	Martin B-26 Marauder
313	A-12 Avenger II
355	LTV A-7 Corsair II/ SLUF
356	MiG-25 Foxbat
357	Henschel Hs-P.135
358	Junkers EF. 126
359	Junkers EF.128
361	Sukhoi SU-7/17
362	Martin P4M Mercator
377	Mirage 2000N
396	Yakovlev Yak-3
430	Sukhoi Su 37
456	Curtiss P-36 Mohawk/ Hawk 75
457	Curtiss P-40B Tomahawk
473	Shenyang Jian-6 Farmer-C (F-6)/ MiG-19
474	Xian Jian 7 Fishbed-C (F-7) /MiG-21
476	Sukhoi Su-17-20-22 Fitter-K
504	Savoia S.M. 79
510	Rockwell B-1B Lancer
602	Black Colt
720	Mitsubishi G4M1 Betty 11 revised
721	Mitsubishi G4M2 Betty 22 revised

I need additional information on the Sikorsky XBLR-3. The only detailed entry is in Lloyd Jones' US Bombers 1928-1980, which shows two photos of the wind tunnel model and a 4-view plan which does not remotely resemble the model. I am finishing up a 1/200 master model based on the factory models, but I can use further help. I found one drawing on the Web, but I cannot even trace its origins.



Jones drawing



Found on Web

I need one more black plastic display case for the Z-Gauge Atlas Verlag model trains. I have managed to catch up with their production, and I want to use 1-2 matching boxes to display my 1/200 armored trains and other Z-Gauge trains. The cases are current production and consist of strips that snap together. With a homemade hardwood surround and an acrylic cover it should look pretty snazzy.

I need a source for larger and deeper Riker Boxes to store display and protect large models and sets of models. One of the walls against which we regularly bang our frontal lobes is places to show off larger aircraft like the C-5 Galaxy and Antonov An-225, or arrangements including such giants. They just don't fit in the largest readily available Riker boxes. While we are on the topic, does anyone have suggestions for storing filled Riker boxes? More than 8-10 in a stack crushes the sides of the boxes. There must be a firm somewhere which offers appropriate racks for folks who really do put butterflies (etcetera) in "butterfly boxes"..

I am still looking for small numbers of 1:200 armoured vehicles made by Trident in Austria and Skytrex in the UK. From Trident I would like the Pershing Missile launcher and 1-2 others. From Skytrex I am missing some of the most recent French and Italian AFV's, plus a number of the German types. We used a lot of these in tactical training so I have a lot of the models to swap.

How about a reliable source for card models of airships? We recently spent a morning with a friend in Phoenix, Dave Haught, He scratch builds airships using blue board (the structural rigid foam insulation panels used by contractors). Needless to say, I caught the bug. I would like to try making a few others in 1/200, either by filling card models with expanding foam or by laminating card models onto lightweight plastic sheet. Unless you are a bachelor or live in a defrocked cathedral an actual collection could create domestic challenges. It might also be well to avoid shrinks of the Freudian persuasion.



How to recycle blue board



Into scale masterpieces

Does anyone have information about a series of 1/200 scale models produced by Cruver in Chicago in the late 1950's or 1960's? I have hobs for the F-94C and PF-86D and a test shot of the Saber Dog, but I have never seen or heard of a production model. Cruver had big bucks in the project if they already had iron hobs. Were they following Hawk and Corgi and Wiking into 1/200 miniatures or kits? Were they working on an ID model range to match the Hansa-Schowanek and Eskader? What happened with the models and tooling?

Does anyone have extras from the K.Konishi range made in Osaka, Japan? With the currency discount helpfully arranged by Abenomics I should probably just place an order. However, I am hopeful some readers will have a few to sell or swap. I do have several mint duplicates.

But first a few more shots from the Great Southwest



Heavy flak over Flagstaff



Wiking 1/200 discovery in Mesa



How did you lose a paddle in Tucson??? We discuss prickly issues





Cold starts a bit smokey



Lived there in 1944

(And now for the Vernal Edition of the news from Vermont, where we face serious threats that spring may soon be upon us..... The reference is only somewhat facetious. The last ice age, a mere 10 millennia back left a clay subsoil that makes quicksand seem positively entertaining when the 3-4 feet of frost here finally melts.)

New HBM Models Department. At the end of April we released 6 new models. Those can be ordered, while they last, from me at ron200hbm@gmavt.net. We continue to beaver away at the known NASA X-Planes, a few more WWII types that somehow eluded our attention, and a more recent fascination with the less known USAAF and USN aircraft projects.

The Bell XP-77 was an attempt to develop a lightweight, low-cost fighter that could be built mainly from non-strategic materials like wood. The concept was sound but by the time the prototypes reached testing it was clear that materials shortages would not arise, and conventional fighters like the Mustang and Thunderbolt were performing admirably.



XP-77 lightweight dogfighter



The Republic XP-69 was one of those fighter projects that makes one really wonder. In the early days of WWII no one was really certain about what requirements would emerge. The XP-69 represents a line of fighter development built around meeting enemy formations at high speeds, high altitudes, and great distances, with lethal cannon and MG armament.



XP-69 heavyweight interceptor



The Curtiss XP-71 was envisioned as an escort for heavy bombers. Only about 20% smaller than a B-17, the XP-71 would have packed a heavy 75mm and 37mm cannon punch, flown as fast as a Tempest or FW 190D, and attempted to engage interceptors at long range. The escort range was better handled by Lightnings and Mustangs, so the project was cancelled.



XP-71 escort fighter



Bigger than medium bombers

The Orbital X-42 RLV was announced along with the X-33, X-34, and other designs as a lower cost, less complex alternative to the Rockwell Space Shuttle for putting “payloads” in orbit. For NASA that could involved delivering scientific packages and supplies for the ISS Space Station, or conceivably bringing home astronauts in case of problems. The other main uses for such vehicles are military. Those include getting new or replacement satellites over areas of conflict and launching strategic weapons at either unfriendly satellites or ground targets. We supplied the model with a representation of such a package.



X-42 components



X-42 carrying delivery package

The Boeing X-51 is a test vehicle used to demonstrate scramjet propulsion, which can accelerate the vehicle to hypersonic velocities. The X-51 is launched from a first-stage launch vehicle taken from the widely used and very reliable ATACMS surface-to-surface missile. We have modeled the X-51 on its ATACMS booster. The X-51 is very tiny in 1/200, so the booster also helps prevent it from disappearing into the nap of your carpet.



X-51



on ATACMS booster

The Avro Lincoln represents the pinnacle of British heavy bomber development during WWII. Developed from the Lancaster, the first operational Lincolns were being dispatched to the Pacific in August, 1945 to participate in missions against the Japanese mainland. The RAF also flew Lincolns in the Kenya Uprising and the Maylaskan Emergency. Lincolns were also operated by the Royal Australian AF and the Argentine AF.



Avro Lincoln kit components

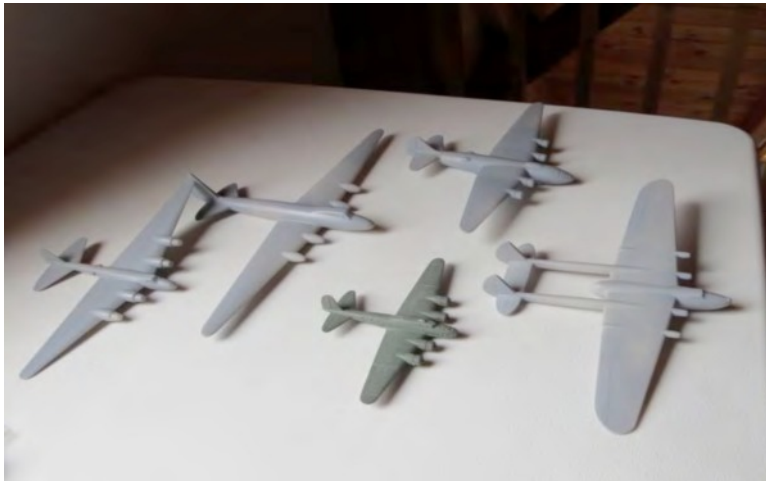


A very easy build

Forthcoming HBM Models. On the work bench at the moment are a quintet of pre-WWII bombers. Those include the Boeing XB-15, Martin XB-16, Boeing YB-17, Sikorsky XBLR-3, and Boeing Y1B-20. A former (!!!!!) colleague actually lost my prototype of the Grumman Mallard, so that project is postponed indefinitely. Next up will be two operational WWII types, the Westland Whirlwind and Vickers Wellesley, along with a family of aircraft based on the Consolidated P-30A.. Also in the mix are a small number of the remaining X-planes, for which hard data has been difficult to obtain.



Future heavies on the work bench



From left XB-15, XBLR-3, YB-17, XB-20, XB-16



Small fry in progress



Wellesley, Whirlwint, P-30A

HBM Sell and Swap Plan. For many reasons, it is time to deal with the accumulated stacks of books, models, kits, and documentation from a career of collecting. All of us face to some extent the same challenges, so I shall not belabor the issues. The plan is to create a listing that can easily be amended as items are added or removed. I will keep the original as a Word document and then circulate the list as a PDF file. I have added the first installment to this newsletter. That is an inventory of the remaining available models from our HBM range. Please let me know at ron200hbm@gmavt.net if you wish to be on the mailing list for subsequent editions. This is something all collectors could be doing.

Selling versus swapping. I personally prefer to swap rather than buying or selling. As a producer most of my collection has been built up by maintaining swap agreements with other producers. Over the years we have become something approaching an extended family. In more general terms swapping works by knowing one another well enough to offer and receive things the other chap wants and will enjoy. Maybe things will change when/if I/we mature. From the current perspective of what Peter Egan has termed “advanced youth” it is just plain more fun to anticipate and then receive goodies than to deposit checks and pay bills.

Armaments in Miniature Department. Dave Schmid reports he just finished new molds for the Fw 190A, Fw 190F, Fw 190D, Ta 152H, Do 217E, replacement mold for the Ju 87B, and Fritz X and Hs 293 guided bomb/missile both on bomb racks and in flight. He also is testing my original molds for the Ju 287V1, He 178, and Mosquito NF. Our cooperation with AIM and Dave <<http://www.angelfire.com/nj4/armamentsinminiature/home.htm>> is working well so far. Dave is able to update and modify some of our older models and make our out-of production models available again at extremely reasonable prices to new collectors and gamers. In return Dave is supporting our new HBM models by making copies from my new masters. Like HBM, AIM is a small, hobby operation. Dave will be producing the types which that sell well enough to cover his costs. If you don't see something you like, contact Dave. We'll try to make it happen.

The IMACS Situation. The International Miniature Aircraft Collectors Society was founded in the 1980's by GR Webster, Sy Merrill, and a handful of other special people who saw the value of linking collectors, providing an archive for information about model ranges, and providing live swap meets and a mechanism for exchanges. The magazine alone was a wonderful resource. IMACS still exists today as an online forum. The URL is miniatureaircraftcollectors@yahoogroups.com. On there you will find all sorts of interest areas for any conceivable kind of modeling. There is a forum specifically for 1/200 models, moderated by your humble and obedient servant. However you can also tap into discussions about diecasts, toys, ID models, manufacturers and airline display models, and other realms with connections to The One True Scale. It is free. Use it and enjoy it.

Wings of Glory Department. Ares Games continues to add to their range of 1/200 WWII aircraft. They are available worldwide from sellers like 12-7 Games and the Aerodrome, but discounting practices make them a genuine bargain in the USA. For \$10-12 they sell a fully finished model on an adjustable display stand. From publicity posted to date the next series will appear later this year. The web site <http://www.aresgames.eu/11848> is showing the B-17F and G and the Avro Lancaster B.III and Dambusters Special. There are also reliable reports about an F4U Corsair, SBD Dauntless, Yokosuka D4Y Judy, P-47D Thunderbolt, and Me 109K.

Wings of Glory Aerodrome Department. Ares Games purchased the Wings of War operations 3-4 years ago, renaming the air war portion as Wings of Glory. Only the WWII miniatures are in The One True Scale, while the WWI aircraft are modeled in 1/144. (Pity, but anyone who ever built a Mercator or Helmet Nieuport or Fokker Tripe will appreciate how small and delicate most WWI kites were.) The Wings of War/Glory initiative, from a historical perspective, achieved a critical milestone for our hobby. It made available a coherent, low-priced range of fully finished, ready to display or play miniatures. That has not been an option since the salad days of Dinky, Mercury, Corgi Vapour Trails, etc.. Our (I guess that dates me – so be it!) generation kept The One True Scale alive and attractive during the Cold War and the current Interlude. We generated high quality but expensive finished model ranges like Konishi and Herpa-Hogan. Great stuff for collectors but most spend their lives in dust-free, locked showcases. We also generated and supported numerous ranges of unfinished models in the form of white metal, resin, and styrene kits. Those were reasonably priced but required the buyer to build, paint, and mount the models. Many phenomenal collections came out of that movement, but so did many attics, basements, and closets full of unbuilt kits. Skill and experience requirements have been a particular deterrent to involving younger people in the hobby. The Wings of War/Glory approach found a sweet spot in the marketplace and appears to be prospering. The wargamers in particular have embraced the concept. Go surfing on www.wingsofwar.org/. You will find 100's of very active people who chat on various forums, have local gaming sessions and national conventions, collect in 1/200, scratchbuild, kitbash, and play in 1/200. The site centers around Wings of War/Glory but also covers models from other sources. The coverage of 3D-printed models is especially good.

Additive Manufacturing / 3D Printing Department. I am more convinced than ever that Additive manufacture is the wave of the future. Mailing models all over the world and paying postage from places like China is a huge argument for decentralizing production. I find it delightful to think of a master modeler/designer in Europe being able to sell a model that was actually printed in the buyer's homeland. I am also sold on the capability of scaling models up and down, so that one design can reach several strata of the hobby. And being able to print configurations like biplanes and floatplanes fully assembled also opens the door for more hobbyists. (May I have a show of hands from those who genuinely want to install struts and wires on their WWI fleet?) The technology still has a long and challenging road ahead. It is painfully slow compared to casting or injecting. It gets very expensive to make large objects and objects with large internal volumes. The resolution of most printers is not very good. The thick layers deposited by most machines in current use play hob with detailing and require a lot of recoating with automotive primers to achieve smooth surfaces. However, the technical problems are going to be resolved very soon. In particular watch for the rise of machines using laser fusion of liquid resins or fine powders to replace the current reliance on polymer filaments. Those steps alone improve resolution by a factor of hundreds. I particularly recommend two articles to anyone who is interested in 3D printed models. The first is a thread started by Dave Haight on how to deal with the surface problems of 3D printed models www.wingsofwar.org/forums/showthread.php?14716-A-New-Finish. The second is a thread initiated by Zoe Brain, in which she reviews the model sortments on Shapeways by designer <http://www.wingsofwar.org/forums/showthread.php?16140-Shapeways-Shop-List-Thread>. That will let you focus easily on the choices available, rather than grinding through long lists of search results that somehow have "200" in their titles. One further point. Many items you might want are designed in other scales, such as 1:220 (Z-gauge), 1/285 (gaming), and 1/144 (modeling and gaming). Surf widely, and when in doubt contact the designer. Most appear happy to add a 1/200 option to their selections. Scaling up is easy. Scaling down involves issues like strength and wall thicknesses, but they are manageable.

Yrt Another shameless plug for TOTS. TOTS, which stands for The One True Scale, is an emailed newsletter for all enlightened souls who enjoy 1/200 scale. A typical issue can be anything from 20-50 pages long, with extensive entries from model producers and collectors around the world. This newsletter is one segment of TOTS. You will regularly find reports from Chris Sayer of Shed Models, Paul Howard of Helmet Aircraft, Wojtek Benzinski of Cloudbreak, Derek Barratt of Metalmodels, and Carsten Breiting, who is the contact for MPM and Sazel Models. Issues also include sell and swap offers and a variety of correspondence. You can read TOTS online at <http://www.the-one-truescale.co.uk/AAnewsletter%20oct%2013%20v2.pdf>, or you can subscribe for email delivery as a PDF file by contacting Chris Sayer at christopher.sayer@virgin.net.

Naval gazing department. I covered the developments in 1/200 maritime items in the last issue, so there are just a couple of additional tidbits. Northstar Models, who specialize in detail parts for ship modelers, have brought out some very nice crew figures, including a set representing Adolf Hitler inspecting a formation at a naval base. Trumpeter is offering a set of figures for use with their USS Missouri kit. Those depict the signing of the Japanese surrender in Tokyo Bay in September, 1945. The tiny kit is reportedly a best seller in its home market. We have no word yet on the availability of Trumpeter aircraft as aftermarket purchases or spare parts. Trumpeter have also just announced the BB USS Iowa. That would be almost identical to their USS Missouri. Go figure.

Atlas Verlag continue to release 1/200 Silver Classic historic airliners. The most recent are the Heinkel He 70, Boeing 314 Clipper, and Douglas DC-3/C-47. The models are nicely made in plated solid white metal. The finish seems to darken in time to almost a brass color, but I think that makes the appearance more distinctive. I am hoping they will make some of the wonderful Ford's, Fokker's and Junkers of the 1930's. Get in touch with me if these interest you. You can often see them on eBay.de, but subscriptions can only be arranged in Germany, Austria, etc. because of their subscription and payment arrangements. As noted above, Atlas Verlag also makes a very attractive range of 1/220 Z-Gauge railroad trains, which they sell on the same basis.

The Skytrex web site is showing availability again for WWII types in the Action 200 range. See http://www.skytrex.com/action-200-1200th-scale_c6251.aspx. The models represent mainly AFV's, but you will also find aircraft, landing craft, and figures. Skytrex have sold off many of their other ranges, so I would advise acting sooner than later. They also have the rights to the splendid Mercator AFV and ship range, so there is hope those will someday reappear. If your fair godmother is really feeling powerful, please have her direct her magic wand at the reissuing of Mercator's 1/200 aircraft kit range. Their Spad, Nieuport, Fokkers, etc are every bit as nice as the 1/72 kits. The Skytrex AFV's and military vehicles have a history as sand table models for a number of armed forces, which makes the models doubly interesting.

Ron's Sell and Swap List

And in conclusion I will append a copy of our current HBM stock inventory. That will tell you both what we have made in the past and what models are still available. The models in BOLD FACE are original HBM models I currently have for sale or swap. I emphatically prefer trades. The quantities on hand are typically very limited. Our models were distributed mainly by standing order among a network of collector friends. The prices shown are the original prices dating back to the 1970's. I'll honor those prices while these supplies last. Shipping at actual cost is extra.

I'll leave the rest of the HBM list intact, so that readers can see the sale items in the context of what else we made over the years.

This list marks the beginning of a massive cleanup and reorganization of my collections. As I catalog, finish, and display my “keepers” I will be offering more HBM models plus 1/200 models from many more producers. Those include aircraft, missiles and spacecraft, AFV’s and ground equipment, ships, figures, plastic kits and model railroad items. I will also be offering a variety of collectible stuff in 1/144, 1/72, and other scales, plus mountains of books and reference materials.

Let me know what you are searching for, and keep in touch.

The best way to motivate me is to offer something interesting in trade. Money all too often disappears into the gas tank or grocery bill, plus values of homemade and unusual hobby items are hard to compute. I will be adding a Wants List to this file, but take that as suggestive. There are lots of models in The One True Scale that I do not even know about.

Number	Type	Price	Remarks
001	Republic P-47D Thunderbolt	5.00	Metal only,ex Schlingelhof DELETED. See 303.
002	Arado Ar 240A	6.00	
003NP	MiG-3	8.00	
004	IAR-80	6.00	
005	Yakolev Yak-1	6.00	
006	Focke-Wulf FW 190D	5.00	DELETED. See 447
007NPMN	Focke-Wulf TA 152	8.00	
008	Mirski II	6.00	
009MN	Heinkel He 162	6.00	
010NP	Me 163	8.00	
011NP	Lavochkin La-7	8.00	
012NPMN	Curtiss P-40E Warhawk	8.00	
013	Fairey Firefly I	5.00	
014	Douglas A-26 Invader	10.00	Gun nose.
015	Tupolev Tu-2	10.00	
016NP	Northrop P-61 Black Widow	13.00	
017	Focke-Wulf FW 187	8.00	Two versions differing in panelling details.
018	Focke-Wulf Ta 154	7.00	
019	FIAT G.55 Centauro	6.00	.
020NP	PZL 23 Karas	8.00	.
021	Blohm und Voss BV 155	7.50	
022	Yakolev Yak-4	8.00	DELETED
023	Heinkel He 219 Uhu	10.00	
024	PZL 37 Los	9.00	
025	Heinkel He 60	7.25	DELETED.
026	Northrop F-18 Hornet	7.00	Early and late production versions produced. DELETED
027RNP	Arado Ar 234	10.00	
028R	Dornier Do 217K	10.00	DELETED
029	Yermolaev YER-2	10.00	
030	Grumman F-14 Tomcat	8.00	Wings forward
031	Grumman F-14 Tomcat	8.00	Wings swept.
032	Kawasaki Ki.61 Tony	5.00	DELETED
033	Kawasaki Ki.100-1A	5.00	DELETED
034	Kawasaki Ki.100-1B	5.00	.
035	Reggiane Re 2005 Sagittario	6.00	

036	Potez 63.11	6.50	
037	Caudron C.714	6.00	
038NP	Grumman F6F Hellcat	8.50	
039	Heinkel He 59	10.50	DELETED.
040	Focke-Wulf FW 190A	5.00	DELETED. See 200.
041	Focke-Wulf FW 190F	5.00	DELETED.
042	Canadair Challenger	9.00	DELETED.
043	Fairey Swordfish	8.50	Versions with and without simulated fabric skinning produced. Floats also included with kit.
044	Fairey Albacore	8.50	
045	Douglas C-54 Skymaster	14.00	
046	Junkers Ju 88G7-c	8.00	
047NP	Supermarine Spitfire 9A	8.00	
048	Bloch 174	7.50	
049BP	Amiot 143 l'Autobus	14.00	
050	Savoia SM.73	10.00	DELETED.
051	Savoia SM.81	-----	Model never issued.
052	Curtiss CW-21B Demon	5.00	
053	Reggiane Re-2000 Falco	6.00	
054	Loire-Nieuport LN 401	6.00	
055	Beriev Be-4	7.00	
056NP	Piaggio P.108B	15.00	
057	Messerschmitt Me 109G	5.00	DELETED. See 267.
058	Messerschmitt Me 109K	5.00	DELETED.
059NP	Supermarine Spitfire Mk XIV	8.00	
060NP	Supermarine Spitfire Mk XVI	8.00	Bubble canopy.
061	Nakajima Ki.43 Oscar	5.00	
062	Nakajima Ki.44 Tojo	5.00	
063	Nakajima Ki.84 Frank	5.00	
064RevNP	FIAT CR.42 Falco	8.00	
065NP	Douglas TBD Devastator	8.00	
066	Rockwell B-1	21.00	
067	Fokker D-21	5.50	
068	PBM Mariner	15.00	
072	Consolidated PB2Y Coronado	14.00	
069	General Dynamics F-16 Falcon	6.00	Prototype version. DELETED.
070	Kawanishi H6K Mavis	14.00	
071NP	Kawanishi H8K Emily	19.00	
068	PBM Mariner	15.00	
072	Consolidated PB2Y Coronado	14.00	
073	Kawanishi NIK1 Rex	5.50	
074	Kawanishi NIK1 George 11	6.00	
075	Kawanishi NIK2 George 21	6.00	
076	Koolhoven FK-58	5.00	
077and	Karl 60mm SP Mortar	16.00	special edition with 078
078	PzKfW IV ammo carrier		
079	Consolidated B-24J Liberator	12.00	two versions with different turrets
080	Consolidated PB4Y-2 Privateer	13.00	
081	Latecoere 298	6.50	
082	Fokker T-8-W	7.50	
083NP	Boeing B-17G Flying Fortress	15.00	
084NP	Centre 222.2	16.00	

085	Centre 223	14.00	
086	Cant. Z.501 Gabbiano	8.00	
087	DeHavilland Mosquito NF	7.00	
088	Caproni Campini N.1	6.00	
089	Consolidated C-87 Liberator		
	Express	12.00	
090	Martin JRM Mars	18.00	
091	Avia 135	5.00	
092NP	Yokosuka MXY7 Okha (Baka)	6.00	
093	Mitsubishi Ki.51 Sonia	6.00	
094	Bell XP-59 Airacomet	6.00	
<u>Number</u>	<u>Type</u>	<u>Price</u>	<u>Remarks</u>
095	Junkers Ju 287VI	8.50	
096	Heinkel He 280	5.00	
097	Heinkel He 178	5.00	
098NP	Supermarine Spitfire Mk 24	8.00	
099	Heinkel He 46	6.50	
100	Mitsubishi G4M2 Betty 22	9.00	
101	Kawasaki Ki.45 Nick	7.00	
102NP	Tupolev TB-3	21.00	
103	Blohm und Voss BV 40	4.00	
104	Avro Lancaster III	12.00	
105	General Aircraft Hamilcar	15.00	
106	Yokosuka D4Y2 Judy 11	6.00	
107	Yokosuka D4Y3 Judy 33	6.00	
108	Nakajima B6N Jill	5.00	
109	Avro Lancaster Special	12.00	With choice of "Dam Buster" Barnes-Wallis Device or Grand Slam bomb. Versions with glazed vs faired nose.
110	Avro Lancastrian I	12.00	
111	McDonnell-Douglas F-15 Eagle	7.00	
112	Supermarine Seafang/Spiteful	5.00	
113NP	Consolidated B-32 Dominator	18.50	
114	Blackburn Botha	8.00	
115	Kyushu Q1W Lorna	7.00	
116	Kawasaki Ki.48 Lily	7.50	
117	Mitsubishi J2M Jack	5.00	
118	Nakajima J1N1 Irving	8.00	
119	Tachikawa Ki.54 Hickory	7.50	
120	Aichi B7A Grace	6.50	
121	Junkers Ju 86P	8.50	
122	Junkers Ju 86R	9.00	
123	Avro Lincoln	13.00	
124	Mikoyan-Gurevich MiG-29		two prototype versions and Fulcrum A were produced.
	Fulcrum	7.00	
125NP	Grumman J2F Duck	10.00	
126	Curtis SO3C Seagull/Seamew	9.50	wheel and float versions
127NP	Vought OS2U Kingfisher	9.50	wheel and float versions
128	Mitsubishi G4M1 Betty 11	9.50	
129	Mitsubishi Ki.21 Sally	8.00	
130	Mitsubishi G3M Nell	8.00	
131	Nakajima Kikka	5.00	
132	LTV F-8 Crusader	6.00	
133	Bristol Bombay	9.50	metal landing gear

134	Handley-Page Halifax III	12.00	
135	Sukhoi Su 25 Frogfoot	6.00	Prototype version
136	Yakovlev Yak-38 Forger	6.00	
137	Sukhoi Su-27 Flanker	6.00	Prototype version. DELETED.
138	Focke-Wulf FW 190A	5.00	DELETED. See 200.
139	North American P-51D Mustang	5.00	DELETED. See 383.
140NP	Hawker Hurricane II	8.00	
141	Convair F-102 Delta Dart	6.00	
142	Convair F-106 Delta Dagger	6.00	
143	Mitsubishi Ki.30 Ann	5.50	
144	Kawasaki Ki.32 Mary	6.00	
145	Nakajima C6N Myrt	6.00	
146	Mitsubishi Ki.57 Topsy	7.50	
147	Lavochkin La-11 Fang	5.00	
148	McDonnell F-101B Voodoo	7.50	two-seater
149	McDonnell F3H Demon	6.00	
150	Dassault Etendard	5.50	
151	Vought F6U Pirate	6.00	
152	Douglas F3D Skyknight	6.00	
153	Nakajima Ki.115 Tsurugi	5.00	
154	Kitsubishi Ki.15 Babs	5.50	
155	Mitsubishi C5M Babs	5.50	
156	Kayaba Ka-1 Autogiro	6.00	
157	Mitsubishi Ki.67 Peggy	9.00	
158	Yokosuka PLYI Frances	8.00	
159	Kawanishi E15K Norm	7.00	
160	Mitsubishi Ki. 109	8.50	
161	Dassault Super Etendard	5.50	
162	Douglas A4E Skyhawk	5.00	early version
163	Douglas A4F Skyhawk	5.00	late "humpback" version
164	McDonnell F2H Banshee	6.00	
165NP	Grumman A6E Intruder	9.00	two-seater
166NP	Grumman EA-6 Prowler	10.00	four-seater
167	Grumman F9F Panther	5.50	
168	Lockheed U-2	7.00	
169	Ambrosini SAI.207	5.00	
170	Kyushu J7W1 Shinden	6.00	
171	Avro CF-100 Canuck	7.00	
172	Lockheed P-38 Lightning	6.00	
173	Nakajima G5N Liz	18.00	
174	Cant. Z.1018 Leone	8.00	
175	Blackburn Firebrand	6.50	
176	Bristol Brigand	8.00	
177	Fairey Spearfish	6.50	
178	Mitsubishi Reppu/Sam	5.50	
179NP	Aichi E16A Paul	9.00	
180	Douglas F4D Skyray	5.50	
181	North American AJ Savage	8.50	
182	Grumman AF2S/W Guardian	6.50	parts for hunter/killer versions
183	Martin AM-1 Mauler	6.00	
184	Douglas A2D Skyshark	6.00	
185	FIAT CR.25	7.00	
186	Kawasaki Ki.102 Randy	7.00	
187	Caproni Ca.135PXI	8.00	

188	Meridionali RO.57	6.50	
189	Mitsubishi A6M5 Zeke 52	5.00	
190	CMASA RS.14	8.00	
191	Mitsubishi A6M2 Zeke 21	5.00	
192NP	Aichi D3A Val	8.00	
193	Nakajima B5N Kate	6.00	
194	Commonwealth Boomerang	6.00	
195	Saro Lerwick	12.00	
196	Commonwealth Wirraway	6.00	
197	Grumman J-21 Goose	8.50	
198	Chetverikov MDR-6	9.00	double tail version
199	Martin-Baker MB-5	6.00	
200NP	Focke-Wulf FW 190A	8.00	
201	North American FJ-1 Fury	6.00	
202	Grumman XF5F Skyrocket	7.00	
203MN	Douglas XBTD Destroyer	6.00	
204	Lockheed TR-1	7.50	
205NP	Brewster SB2A-2 Buccaneer	8.00	
206	Messerschmitt Me 163V1	5.00	rocket prototype
207	DFS 194	5.00	
208	Siebel 202 Hummel	5.00	
209	Fokker T-5	8.00	
210	Nakajima A6M2-N Rufe	6.50	
211	Aichi H9A	11.00	
212	Aichi M6A1 Seiran	8.00	
213NP	Consolidated TBV Sea Wolf	8.00	
214	Beriev KOR-1	7.00	
215	Curtis SBC Helldiver	6.00	
216	Grumman F2F	5.50	
217	Hawker Sea Fury	6.00	
218	Boeing Y1B-9A	9.00	
219	Keystone XB-1	11.00	
220	Douglas B-23 Dragon	9.00	
221	Avro CF-105 Arrow	8.50	
222	FIAT BR.20bis	9.00	
223	Arado Ar 199	6.50	
224	FMA IA-54 Pucará	7.50	
225	Northrop F-5 Freedom Fighter	6.00	
226	Junkers Ju 290A-7	16.00	
227	Lockheed F-104 Starfighter	6.50	
228	BAC Jaguar	6.50	
229	Messerschmitt Me 328	5.00	
230	Heinkel He 1077 Julia	5.00	
231	Blohm und Voss HA 140	10.00	
232	Henschel Hs 132	5.00	
233	Sukhoi SU 27 Flanker-B	8.00	
234	Kawasaki Ki.56 Thalia	9.00	
235	Hispano Ha 1112 Buchon	5.00	
236	Fiesler Fi 167	7.00	
237	Short "C-Class" Flying Boat	17.00	
238	Siebel Si 104	8.00	
239	Grumman J4F Widgeon	7.50	
240	Martin P5M Marlin	19.00	
241	North American F-86 Sabre	6.00	two different versions produced

242NP	General Dynamics F-16C Falcon	9.00	
243	Mikoyan and Gurevich MiG-21		
	Fishbed K-M	6.00	
244	Sukhoi Su-24 Fencer	7.50	
245	BAC/MBB EFA/JF-90	6.00	
246	Sukhoi SU 25 Frogfoot	6.50	
247	SAAB Lanser	6.50	
248	SAAB JA-37 Jagdvingen	6.50	
249	Douglas RB-66 Destroyer	9.00	
250	Hawker Tempest II	6.00	
251	DeHavilland Twin Otter	10.00	wheel and ski undercarriage
252	Supermarine Singapore	14.00	
253	Saro London	13.50	
254	Arado Ar-P-580	5.00	
255	Arado Ar-P-340	12.00	
256	Junkers Ju 390V	21.00	
257	Douglas P-70 Havoc	9.00	
258	Focke-Wulf Treibflügel	7.00	
259	Focke-Wulf Ta 283	6.00	
260	Douglas A-20G Havoc	9.00	
261	Messerschmitt Me 109Z	6.00	
262	Sikorsky S-43	13.00	
263	Submarine Set I	15.00	Marder, Neger, Kaiten I, Kaiten II, SSB, Chariot, Miaile, Type A
264	Supermarine Stranraer	14.00	
265	Lockheed 10 Electra	9.00	
266	SAAB Grypen	6.50	
267	Messerschmitt Me 109G	6.00	
268	Bücker Bü 133 Jungmeister	6.00	supplied assembled
269	Bell-Boeing V-22 Osprey	10.00	
270	North American A-5 Vigilante	8.00	
271	Douglas A3D Skywarrior	9.00	
272	Lavochkin La-15 Fantail	6.00	
273	Rockwell OV-10 Bronco	7.00	
274	Grumman OV-1 Mohawk	7.50	
275	Grumman S2F Tracker	8.00	
276	Grumman E-1 Tracer	-----	not yet issued
277	Sukhoi Su-21 Flagon	6.00	
278	Nakajima G8N Rita	15.00	
279	Sikorski R-4	7.00	
280	Hawker Tempest V	6.00	
281	Boeing XF8B	6.00	
282	Folland Gnat fighter	5.00	
283	Folland Gnat trainer	5.00	
284	Heinkel He 343	8.00	
285	Heinkel He 176	5.00	
286	Messerschmitt Me-P-110IV-1	5.00	
287	Grumman F9F-8 Cougar	5.50	radical rework of Hawk
288	Submarine Set II	5.00	X-Craft, Welman
289	Beriev Be-12 Mail	18.00	
290	Lockheed C-56 Lodestar	9.00	
291	Ilyushin DB3-M	9.00	
292	Dornier Do 22 Land	9.00	
293	Dornier Do 22 Floats	9.00	

294	Bell X-5	5.50	
295	Mikoyan and Gurevich MiG-23		
	Flogger K	6.00	
296	Mikoyan and Gurevich MiG-27		
	Flogger D	6.00	
297	Mil-28 Havoc	8.00	
298	Sikorsky UH-60 Blackhawk	7.50	
299	Mil-24 Hind-E	8.00	
300	Kielbassa-Fromage KF-101 Orca	12.00	
301	Hughes AH-64 Apache	8.00	
302NP	Junkers Ju 322 Mammut	32.00	
303NP	Republic P-47D-20 Thunderbolt	8.00	
304	Republic P-47N Thunderbolt	6.00	
305NP	Martin B-26 Marauder	13.00	
306	Lockheed C-69 Constellation	16.00	
307	Latécoere 302	21.00	
308	Tupolev Tu-144 SST Charger	22.00	
309	Tupolev Tu-14 Bosun	9.00	
310	Lockheed F-117A Wobbly Goblin	8.00	
311NP	Northrop/McDonnell YF-23	10.00	
312	Lockheed/General Dynamics		
	YF-22 Lightning II	7.50	
313	General Dynamics/McDonnell		
	A-12 Avenger II	8.50	
314	Convair R3Y Tradewind	22.50	
315	Douglas XB-19 Hemisphere		
	Defender	24.00	
316	Loire 130M	10.00	
317	Breguet Bizerte	18.00	
318	Martin B-57B Canberra	9.00	
319	Eng.Electric Canberra B(1)8	9.00	
320	Piaggio P.108A Artigliere	12.00	
321	Dornier Do 17E	9.00	
322	Dornier Do 17Z	9.00	
323	Dornier Do 215	9.00	
324	Bell Super Cobra	7.50	
325	Northrop T-38 Tweety	6.00	uncompleted factory model
326	Northrop F-5 Freedom Fighter	6.00	uncompleted factory model
327	Northrop F-20 Tigershark	6.00	uncompleted factory model
328	Northrop F/A-18 Hornet	7.00	uncompleted factory model
329	Dornier Do 17 Kauz	9.00	
330	Arado Ar 231	6.00	
331	Republic P-47D-25 Thunderbolt	6.00	
332	Martin B-57 Canberra -long span	9.00	
333	McDonnell F-101A Voodoo	7.50	
334	Douglas XB-43 Jet Mixmaster	7.50	
335NP	Douglas A-26 Invader - bomb nose	11.00	
336	Gen.Dynamics TFX/F-111B	7.50	
337	Lockheed XF-90 penetration ftr	6.50	
338	Republic XF-91 Thunderceptor	6.50	
339	Fairchild 91 Jungle Clipper	8.50	
340	N.American O-47	6.00	
341	Tachikawa Ki.36 Ida	6.00	
342	Loire 210	7.00	

343	Dassault Mirage F.1	6.00
344NP	Dassault Mirage III	8.00
345	Dassault Mirage IV	7.50
346	Dassault Mirage 2000	6.00
347	IAI Kfir (US F-21)	6.00
348NP	Junkers Ju 388K	12.00
349	Boeing Sea Ranger	18.00
350	Northrop F-15 Reporter	9.00
351	N.Am. P-51H Mustang	6.00
352	Republic P-47J Hot Rod	6.00
353	Nakajima Tenrai	8.00
354	N.Am. P-51J Mustang	6.00
355	LTV A-7 Corsair II/ SLUF	6.50
356	MiG-25 Foxbat	7.50
357	Henschel Hs-P.135	5.50
358	Junkers EF. 126	5.50
359	Junkers EF.128	5.50
360	Northrop YF-17 Cobra	6.00
361	Sukhoi SU-7/17	6.00
362	Martin P4M Mercator	12.00
363	Republic XP-72	6.00
364	Republic A-10 Thunderbolt II	9.00
365	Arado P-Nachtjäger I	7.50
366	Grumman F3F	5.50
367	Ki.76 Stella	6.00
368	Taylorcraft/Auster IV	5.50
369	Bristol Buckingham	10.00
370	Dassault Rafale	6.00
371	FIAT G.12	10.00
372	MiG-31 Foxhound	7.50
373	Gen.Dynamics FB-111 bomber	8.00
374	Gen.Dynamics EF-111	8.00
375	Tupolev Tu-160 Blackjack	26.00
376	Sikorsky VS-44 Excalibur	20.00
377NP	Mirage 2000N	8.00
378	Junkers Ju 390A	21.00
379NP	Yak-9	8.00
380	Dass. Alpha Jet	5.50
381NP	Junkers Ju 88G	12.00
382	Supermar. Sea Otter	9.00
383NP	N.Am. -51D Mustang	8.00
384	Republic P-43 Lancer	6.00
385	Caproni Ca.310	8.50
386	Martin 166	9.00
387	Consolid. XP4Y-1 Corregidor	16.50
388	Nakajima E8N Dave	7.50
389	Short Stirling	15.00
390NP	Lavochkin La-5FN	8.00
391	Gotha Go -P-60C	6.50
392	DFS 346	6.00
393	Blohm und Voss P.188.01.01	9.00
394	MiG-29 Fulcrum-C	7.00
395	Sukhoi Su-27 Flanker -naval	8.00
396NP	Yakovlev Yak-3	8.00

397	Aeromacchi MB.326	6.00	
398	Curtis F-11C Goshawk	5.50	
399	Curtis B-2 Condor bomber	11.00	
400	Lockheed XB- 30	16.00	
401	Boeing F-4B	6.00	
402	Douglas DB8-A	7.50	
403	Yak-141 Freehand	7.50	
404	Curtis Shrike	7.50	
405	Curtis SOC-3 Seagull	8.00	
406NP	Avro Lancaster Mk.III	16.00	
407	H-P Halifax	12.00	replaces #134
408	Boeing B-29	15.00	
409	McDonnell F/A-18	7.50	- replaces #026
410NP	Yakovlev Yak-1M	8.00	
411NP	MiG-1 (open cockpit)	8.00	
412	Sikorsky S-38	12.00	
413	Boeing XB-54	16.00	
414	Aeromacchi MB.339	6.00	
415	Sikorski S-40	15.00	
416	Messerschmitt Me 209V-2	5.00	
417	Dornier Do-P-256	6.00	
418	Blohm und Voss BV-P-211	5.00	
419	Blohm und Voss BV-P-215	6.00	
420	N.Am. F-100 Super Sabre	6.50	
421	Republic F-105 Thunderchief	7.00	
422	"Buran" Space Shuttle (Soviet)	14.00	
423	Myasichev M-17 Mystic	10.50	
424	Keystone B-4A Panther	11.00	
425	Douglas Y1B-7	11.00	
426	Renard R-38	6.00	
427	Sikorsky R-5	7.50	
428	MiG-5	7.50	
429	Polikarpov I-17	6.00	
430	Sukhoi Su 37	7.50	
431	Chenoweth FAV	7.00	
432	F-9C Sparrowhawk	6.00	
433	FW Flitzer	6.00	
434	IL-76 Mainstay AWACS	30.00	
435	Yakovlev Yak-4	7.50	
436	MiG-7	6.00	
437	Aerospatiale 332 Super Puma	7.50	
438	Dewoitine D.338	10.50	
439	Convair XF-92A	5.00	radical Hawk rework
440	Republic F-84G Thunderjet	5.00	radical Hawk rework
441NP	N.Am X-15	8.00	radical Revell rework
442	N.Am. P-51A/A-36 Invader	6.00	removable 20mm cannon
443	N.Am. P-51B Mustang	6.00	
444	McDonnell F-4E Phantom II	7.50	
445	SNCASE Armagnac	24.00	
446	Fairey Hendon	12.00	
447NP	Focke-Wulf FW 190D-9	8.00	
448	Mikoyan I-250	6.00	
449	Aeromacchi AMX	6.00	
450	IAR-93 Orao	6.00	

451	Beriev A-40 Albatross	23.25	
452	Tupolev Tu-28 Fiddler	11.25	
453	Tupolev Tu-22 Blinder	18.00	
454	Tupolev Tu-22M3 Backfire C	18.00	with Kitchen missiles
455	XIAN -6 Badger (Tu-16 Badger-A)	21.00	with Silkworm missiles
456NP	Curtiss P-36 Mohawk/ Hawk 75	8.00	
457NP	Curtiss P-40B Tomahawk	8.00	
458	MiG I-211 (MiG-5/MiG-9-M-82)	6.00	
459	Bloch 220	10.50	
460	Sud Est SO-30P	10.50	
461	Mitsubishi F-1	6.00	
462NP	Grumman E-2C Hawkeye	16.00	
463	AIDC Ching-Kuo	6.00	indigenous Taiwan fighter
464	Heinkel "Wespe" Projekt	6.00	
465	Northrop B-2A "Stealth"	15.00	
466	Fairchild C-82 "Flying Boxcar"		planned
467	Cessna A-37 Dragonfly	6.00	
468	Boeing B-52G Stratfortress/Buff	22.00	with Tomahawk missiles
469	BAC Strikemaster	6.00	
470	USS "Ohio" SSBN	150.00	
471	Aero L.39 Albatross	6.00	
472	Convair YF-92	6.00	
473	Shenyang Jian-6 Farmer-C (F-6)	6.00	Chinese version of MiG-19
474	Xian Jian 7 Fishbed-C (F-7)	6.00	Chinese version of MiG-21
475NP	Shenyang Jian-5 Fresco-D (F-5)	8.00	Chinese version of MiG-17
476	Sukhoi Su-17-20-22 Fitter-K	6.50	
477	Bölkow Bö 105	6.50	
478	Lockheed "Have Blue" prototype	6.00	
479	Northrop TR-3A	7.50	
480	Lockheed (?) Aurora	15.00	
481	Messerschmitt Me-P-1110V2	6.00	
482	Arado Projekt E.581	6.00	
483	Nanchang Q-5/A-5C Fantan	6.00	
484	Tupolev Tu-95 "Bear"	23.00	
485NP	Heinkel He 111H-3	13.00	
486	Messerschmitt Bf 109E	6.00	
487NP	Messerschmitt Bf 110C	12.00	
488NP	Macchi MC.205V	8.00	
489NP	Bell P-39Q Airacobra	8.00	
490	Curtis P-40N Kittyhawk	6.00	
491NP	Boulton-Paul Defiant	8.00	
492NP	Gloster Gladiator	9.50	
493NP	Supermarine Spitfire Mk.I-II	8.00	
494NP	Messerschmitt Bf 109F	8.00	
495NP	Messerschmitt Bf 109G	8.00	replaces #267
496NP	Messerschmitt Bf 109K	8.00	8.00 replaces #058
497NP	Focke-Wulf FW 190F	8.00	replaces #042
498NP	Handley-Page Hampden	13.00	
499NP	Vickers Wellington	15.00	
500	Daimler Benz Projekt B		only jet bomber and guided missiles
	available		
501	Bristol Blenheim Mk.I NF	9.00	
502NP	Junkers Ju 87B Stuka	9.00	
503	Kamov Ka 50 Hokum	7.00	
504NP	Savoia S.M. 79	13.50	
505	Henschel Hs 123	6.50	

506	Heinkel He 115	12.00	
507	H-P Halifax I-II	16.00	
508	Panavia Tornado F. Mk 3	8.00	
509	Ger. Panzer-Drazine Truppenwagen	7.00	armored train set -other cars follow
510	Rockwell B-1B Lancer	24.00	
511	Handley Page Harrow	15.00	
512	Armstrong-Whitworth Whitley	12.00	
513	Panzer-Träger Wagen	8.00	armored train set - other cars to follow
514	Drazine with Pz.III Turret	7.50	armored train set
515	Steyr Panzer-Drazine	7.00	
516	Westland Lynx	7.50	
517	Aerospatiale Gazelle	6.00	
518NP	Junkers Ju 88A-5	12.00	
519	Mil Mi -8 Hip	9.00	
520	Augusta A-129 Mangusta	6.50	
521	Boeing-Sikorsky AH-66 Comanche	7.00	
522	Curtis XP-60	6.00	
523	Boeing E-3 Sentry	25.00	
524	SAAB 105	6.00	
525	Bell AH-58 Kiowa	6.50	
526NP	Messerschmitt Me 110G	13.00	
527	Messerschmitt Me 410	9.00	
528NP	Potez 630	11.00	
529	Amiot 350	11.00	
530	Cant. 1007 twin tail	11.00	
531	Cant. 1007 single tail	11.00	
532	Dewoitine 510	6.00	
533	N. Am. B-25B-C Mitchell	13.00	special in Doolittle trim
534	HAC/PAH Eurocopter	7.00	
535	Weserflug 1003/1	6.00	Osprey progenitor
536	Panzer Draisine - 20mmFlak Vierling	7.00	armored train set
537	Planked pushed car-sandbagged	6.00	armored train set
538	Northrop N-1M	5.00	with straight wingtips
539	Northrop N-1M	5.00	with drooped wingtips
540	Lockheed P-2V-3 Neptune	13.00	builds several variants
541	Lockheed P-2V-5 Neptune	13.00	builds several variants
542	Lockheed P-2V-7 Neptune	13.00	builds several variants
543	Lippisch DM-1	6.00	
544	Lippisch P.13a	6.00	
545NP	Junkers Ju 88A-1	12.00	
546NP	Junkers Ju 88A-4	12.00	
547NP	Messerschmitt Me 262A-1	8.00	
548	Curtiss Hawk 75	6.00	
549	DeHavilland Albatross	14.00	
550	Vought F4U-1 Corsair	6.00	birdcage canopy
551	Vought F4U-1D Corsair	6.00	bubble canopy
552	Mitsubishi J8M1 Shusui	6.00	
553	Avro Shackleton	13.50	
554	Avro Lincoln	16.00	replaces #123
555	DASA-MBB Lampyridae	7.00	German Stealth fighter
556	Northrop XB-35	14.00	

557	Me 262 drone	6.00	can be displayed alone or as flying bomb portion of a Me 262A-1 or Me 262A-2/U-2 Mistel
558	Focke-Wulf FW 200C-4	18.00	
559	Cons. PBY-5 Catalina	18.00	
560	Martin XB-51	13.00	
561	Arc en ciel	12.00	
562NP	Fairey Battle	9.00	
563NP	Douglas SBD-5 Dauntless	8.00	
564	Republic F-84 FICON	6.00	B-36 parasite fighter
565	Republic F-84F Thunderjet	6.00	
566	Northrop N-9M	7.00	
567	Northrop XP-79	6.00	
568	Northrop MX-334	6.00	
569	Sänger Project	23.00	with booster, launching dolly, and launch rail section
570	Avro Aerocar	6.00	
571	Me 262A-2/U-2	6.00	bomber und missile control aircraft with prone bomb aimer
572	FW 190A-10 ram jet project	6.00	
573	Arado Ar 234B night fighter	7.50	
574	Panzer-Jäger Wagen	8.00	armored train set
575	MAPO MiG-35	7.50	
576	Sukhoi Su-37 Flanker	9.00	
577	Douglas Skystreak	6.00	
578	XB-46	14.00	
579	Republic F-84 Thundersreech	6.50	
580	McDonnell-Douglas X-36	5.00	
581	Curtiss P-40Q	6.00	
582NP	Northrop "Tacit Blue"	10.50	
583	Junkers Ju 188A	10.00	
584NP	Junkers Ju 52-3m (land)	20.00	
585	Junkers JU 52-3m (floats)	15.00	
586NP	Boeing JSF	9.00	
587NP	Lockheed-Martin F-35 JSF	10.00	
588	MDD JSF	7.00	
589	A-9 manned V-2	6.00	
590	M2F2 lifting body	6.00	
591	HL10 lifting body	6.00	
592	HiMAT		cancelled – not issued
593NP	Lockheed X-33	17.25	
594	X-38	6.00	
595	Tier III Dark Star UAV	6.00	
596	Arsenal VG.33	6.00	
597	Potez 540	16.00	
598	Rockwell X-31	6.50	
599	Teledyn-Ryan Tier II+ Global Hawk	9.00	
600	Roswell "Centauri" Mk.47	20.00	
601	BlackHorse	8.00	
602	BlackColt	7.50	
603	Heinkel He 111H-20 + V-1	11.00	
604	Latecoere 631	30.00	
605	Amiot 354	10.00	
606	Potez 63/11	9.00	
607	FIAT Br.20 (early)	10.00	
608NP	Vought F7U-3 Cutlass	8.00	

609	Republic RF-84F Thunderstreak	6.00		
610	Arado E.381		5.00	
611	SAAB 91B Safir	6.00		
612	SAAB J.21A		7.00	
613	SAAB J.21R		7.00	
614	SAAB B.17		7.00	
615	SAAB B.18		10.00	
616	Avro Manchester I-A		12.00	
617	Ilyushin IL-4/DB3-F		10.00	
618	Mureaux 117		7.50	
619ANP	McDonnell F-18E Super Hornet		10.00	
619BNP	McDonnell F-18F Super Hornet		10.00	2- seater
620	SAAB J.39A Gripen		7.00	
621	SAAB J.39B Gripen		7.00	2-seater
623	SAAB J.29F Tunnen		7.00	
624	X-Craft midget submarine		6.00	Normandy pathfinder
625	Electric Boat NR-1 research sub		planned	(1997 trim)
626	Avro Manchester I		13.00	triple tail
627	SCREMAR + hypersonic cruise missile SCHMAC		10.00	from USAS 2025
628NP	Lockheed F-117A		10.00	
629	Reichenberg I (manned V-1)		5.00	
630	Reichenberg II (manned V-1 trainer)		5.00	
631	Curtiss XP-37		6.00	
632	Junkers Ju 52-3m minesweeper	15.00		with degaussing ring
633	Junkers Ju 52-3m Luftwaffe trans.		15.00	parts for transport+bomber
634	Armored Loco + Tender	21.00		Soviet WWII train –whole train 55.00
635	Armored gun wagon		10.00	
636	Armored Flak wagon		10.00	
637	Russian style pusher wagon		6.00	
638	Saab Draken		6.50	
639NP	Dewoitine D.520		8.00	
640	Dornier Do 217E-2 +HS 293		13.00	
641NP	Bloch MB.152		8.00	
642NP	Heinkel He 177A-4		21.00	
643	Polikarpov I-15		7.00	
644	Polikarpov I-15bis		7.00	
645	Polikarpov I-153		7.00	
646	Polikarpov I-16 Rata		6.00	
647	Submarine set III		9.00	Hecht, Biber, Molch, Seehund (ex HFM)
648	Kyushu K11W1 Shiragiku		8.00	
649	Kawanishi E7K Alf		9.00	
650NP	Macchi MC.200		8.00	
651	Macchi MC.202		6.00	
652	Saab J.32 Lansen		7.00	remastered
653	Martin Mars XPB2M-1R		23.00	
654	Messerschmitt Me 210A		9.00	
655NP	Ilyushin IL-2 Sturmovik 1-seater	9.00		
656NP	Ilyushin IL-10		9.00	
657	Hawker Typhoon		6.00	
658NP	FVS J.22		8.00	
659NP	Morane 406		8.00	
660NP	FIAT G.50		8.00	
661	Savoia SM.84		15.00	
662	Consolidated P2Y		16.00	

663NP	Grumman F4F-3 Wildcat		8.00	
664	Hall PH-3		14.00	
665	Douglas Dolphin		14.00	
666	Stinson L-1 Vigilant		planned	
667	Messerschmitt Me 321		21.00	
668	Stinson L-5 Sentinal		planned	
669	Messerschmitt Me 323D	22.00		
670	Lockheed-Martin F-22A Raptor		8.00	
671	Northrop RB-49	13.00		
672	Saab AJ.37 Viggen		8.00	remastered
673	Saab JA.37 Jagd Viggen	8.00		remastered
674	Lockheed Dark Star		6.00	
675	Lockheed Strikestar		6.00	
676NP	Me 262B night fighter		8.00	
677	Me 262 A 57mm cannon		6.00	
678	Me 262A-2/U-2 + Me 262 Mistel		10.00	
679	Ki.77		10.00	
680	Ki.43 Oscar		6.00	
681	Kawasaki Ki.61 Tony		6.00	
682	Convair X-6 / NRB-36	25.00		
683	Convair RB-36	25.00		
684	Convair YB-60		28.00	
685	Sikorski S.39		12.00	
686	Kawasaki Ki.100-1A		6.00	
687	Nakajima N10M Mt.Fuji	24.00		
688	BP-44 armored train		65.00	seven pieces
	688A BP-44 loco and tender		22.00	
	688B BP-44 Command Wagon		8.00	
	688C BP-44 Panzerjäger Wagon		9.00	
	688D BP-44 Tank Carrier Wagon		6.00	use Skytrex-Mercator PzKfW 38(t) as tank
	688E BP-44 Artillery Wagon	10.00		
	688F BP-44 Artillery/Flak Wagon		10.00	
689	Convair B-36C Turboprop		25.00	
690	Soviet armored artillery and flak cars		20.00	completes WWII train
691	Ki.74 Patsy		11.00	
692	Yokosuka Cherry		12.00	
693B	PZL 38 Wilk		10.00	
694	Saab 105 Revised		6.50	
695NP	Zeke 52		8.00	replaces #189
696NP	Vought 156		8.00	
697	Caproni-Vizzola F.5		6.00	
698	Potez 62-65		15.00	
699	Bloch 131		12.00	
700	Blohm & Voss Ae 607		7.00	
701	Breguet 693		10.00	
702	Junkers Ju 88G	9.00		
703	Junkers Ju 88S	9.00		
704NP	Bristol Beaufighter IF		12.00	
705NP	Bristol Blenheim IV		13.00	
706	Breda Ba.65		7.50	
707	Breda Ba.88		9.00	
708	Loire et Olivier LeO.451		15.00	
709	Caproni Ca.313		10.50	
710	Curtiss C-46B Commando		15.00	
711NP	Lockheed P-38J Lightning		10.00	

712	Avro Anson		11.00
713	Airspeed Oxford		9.00
714	Armstrong Warwick		15.00
715	NASA. NF-104		7.00
716	Heinkel He 111Z Zwilling		17.00
717	Cons. PBY-2 Catalina		18.00
718	Blackburn Skua	6.00	
719NP	Lockheed XP-80 prototype		8.00
720	Mitsubishi G4M1 Betty 11 revised		10.00
721	Mitsubishi G4M2 Betty 22 revised		10.00
N722NP	Mitsub. Nell (revised)		13.00
723	BP.30 Kommando/Flak wagon		10.00
724	BP.30 Artillery wagon		10.00
725	X-34		8.00
726	X-43 Hyper-X + Pegasus		10.00 with original + modified Pegasus
727	SB2C Helldiver		6.00
728	N.Am X-15-III Delta		7.00
729	Lockheed PV-1 Ventura	12.00	
730	Douglas DC-2		15.00
731	Douglas C-47B		12.00
732	Lisunov Li-2 (PS-84)		12.00
733	Junkers Ju 352	14.00	
734	Martin Maryland		12.00
735	Martin A-30 Baltimore		12.00
736	Messerschmitt Me-P-329		7.00
737NP	Petyakolev PE-2FT		13.00
738NP	Illyushin IL-2m3 two seater		9.00
739	Boeing (?) SHAAFT		25.00
740	Latecoere 611		18.00
741	Hawker Typhoon 1A "Car door)		6.00
742	Boeing B-17C-D		16.00
743	V-1 missile launching site		49.00 set includes ramp, base, stanchions, catapult steam generator, ignition device, assembled V-1, V-1 with wings separate, V-1 delivery wagon, assembly crane
744	Me 262A – Lorin ramjets		7.00
745	Dewoitine D.371		8.00
746	Loire et Olivier LeO.257		10.00
747	Latecoere 29.0		14.00
748	Potex 141 Antares		18.00
749	Henschel Hs 129 with cannon		10.00
750	Republic F-84H Thunderscreech		6.00
751	Aerojet General X-8 and Bell X-9		7.00
752NP	Bristol Beaufort		13.00
753	Arado Ar 196		8.50
754	Dornier Do 18		12.00
755	Dornier Do 24		16.00
756	Westland Lysander		8.00
757	Fairey Fulmar		6.00
758	Junkers Ju 88C		10.00
759	Junkers Ju 88H-4 Pathfinder		13.00
760	Junkers 88G-10	10.00	
761	Nakajima Ki.84 Frank		6.00
762NP	Fokker D.XXI		8.50
763NP	Fokker G.1		12.00
764	Chetverikov MDR-6 – early		planned

765	Tupolev TB-3 + I-16 Zvena	30.00	
766`	Junkers EF.009	6.00	
767NP	Yakolev Yak-6	12.00	
768NP	Sukhoi Su-2	9.00	
769	Tupolev TB-7 (Pe-8)	15.00	
770	V-2 (A3) Missile launch set	45.00	
771NP	Brewster Buffalo F2A-3	8.00	
772	LaGG-3	6.00	
773	He-112B	6.00	
774	He-70A	6.00	
775	A-31 Vengeance MK.1	7.00	
776 NP	Lavochkin La-5	8.00	early version
777	Mistel 3 C	16.00	(FW 190A + Ju 88G-10 missile)
778	Mistel S 3C	16.00	(FW 190A + Ju 88G-10)
779	Ju 88 "Führungsmaschine" Mistel	17.00	(Ju 88H-4 + FW 190A)
780	Dornier Do 217J	11.00	
781	Dornier Do 217N	11.00	
782	Blohm & Voss BV 222	24.00	
783	Niemann R-10	7.00	
784	Douglas SBD-5 Dauntless (open)	6.50	
785	Waco CG4-A	11.00	
786NP	Douglas A-20B Havoc	13.00	
787	Me 262 Schnellbomber Project		6.00
788	Me 262 HG-I Project	6.00	
789	Lockheed PBO Hudson	12.00	
790	Horton XIII-B Projekt	6.00	
791	SAAB B.17BS (floatplane)	8.00	
792NP	Gloster Meteor III	8.00	
793	Lavochkin La-9	6.00	
794NP	Short Sunderland III	22.00	
795	Caudron Simoun	7.00	
796	Caudron Goeland	10.00	
797	Aeronca L-3 Grasshopper	7.00	
798	Fokker T.IVa	16.00	
799	Fokker C.XIV-W	11.00	
800	Ushakov LPL/ PKP Flying Sub	18.00	
801	PZL Sum	7.00	
802	LWS Mewa	7.00	
803	PZL 7 /11	7.00	
804	PZL 24	7.00	
805	Hover M.F.11	14.00	
806	Northrop N-3PB	8.00	
807	Arkhangelski Ar-2	12.00	
808	Beriev MBR-2	14.00	
809	Chetverikov ARK-3	11.00	
810	Dornier Do 217K-2	12.00	with 2 Fritz-X Missiles
811NP	Aichi "Jake"	11.00	
812NP	Mitsubishi "Pete"	10.00	
813	Nakajima "Tojo"	6.00	
814NP	Mitsubishi Zeke 32 "Hamp"	8.00	
815	Yokosuka E14Y1 Glen	10.00	
816	LeO 246	14.00	
817NP	Douglas 8-A (Swedish B.5)	9.00	
818	Mitsubishi K1-21-1a Sally I	11.00	
819	Mitsubishi K1-21-II Sally II	11.00	

820	Mitsubishi K1-21-II-b Sally III	11.00	
821	Mitsubishi Ki-57-I Topsy I	11.00	
822	Mitsubishi Ki-57-II Topsy II	11.00	
823	Blohm und Voss BV 138	15.00	
824	Focke-Wulf FW 189	12.00	
825	Panhard Ger.armoured rail car	6.00	
826	Curtiss A-12 Shrike	7.50	
827	Messerschmitt Bf 108	6.00	ex-VK
828	Arado Ar 234C-4	11.00	
829	Boeing X-45A	6.00	(subscale demonstrator)
830	Boeing X-45B	6.00	
831	Northrop-Grum. X-47A	6.00	
832	Northrop-Grum. X-47B	6.00	
833	BoeingX-45C	6.00	
834	Bachem 349 "Natter"	9.00	with launch post
835	Aero 100	9.00	
836	Letow S.328		Planned
837	Aero B.534		Planned
838	Nieuport-Delage NiD.622	9.00	
839	Gordou-Leseure GL.810	12.00	
840	Morane Ms.230	11.00	
841	Besson MB-411	10.00	
842	Potez-CAMS S.55.10	16.00	
843	Centre NC.470	20.00	
844	Latecoere 523	36.00	
845	Loire 70	19.00	
846	Loire et Olivier LeO H-43	10.00	
847	SDV Swimmer Delivery Vehicle	11.00	set of Mk.VII, Mk.VIII, Mk.IX
848	Tomahawk and ALGM 86	10.00	set of cruise missiles
849	Nakajima JIN2 Irving	10.00	cut-down interceptor
850	ground and weapons crew (7)	6.00	
851	Focke Wulf FW 200V	20.00	Luftwaffe and DLH transport
852	Boeing Bird of Prey	8.00	
853	Scaled.Composites SpaceShipOne	8.00	
854	Sc.Comp. White Knight	15.00	
855	Breguet-Dornier Alpha Jet	8.00	
856	Raytheon-Beech Starship	12.00	
853-856	Rutan X-Prize winner set	38.00	
857	A-Stoff tank for V-2 set	8.00	
858	DH Mosquito FB	12.00	
859	Convair X-11	15.00	
860	Convair X-12	15.00	
861	Boeing X-53	11.00	(F/A-18 MCW)
862	Nakajima Ki.27	8.00	
863	Lockheed 12 Electra Junior	12.00	
864	Ryan STM	8.00	also makes assorted Ryan trainers
865	North American NA.26-27	8.00	BT9 and other variants to AT-6 easy -
866	Bell X-16	14.00	
867	Pereira X-28A	11.00	
868	Schweizer X-26A	10.00	
869	Schweizer X-26B	10.00	
870	Bell Textron X-22A	12.00	
871	Northrop X-21A	19.00	
872	Douglas X-3 Stilleto	11.00	
873	Lockheed X-17	10.00	
874	Hiller X-18	18.00	

875	Lockheed X-27 Lancer		10.00
876	Latecoere 521	36.00	
877	Bell X-14A		9.00
878	Bell X-14B		9.00
879	Bell X-1E		8.00
880	Curtiss-Wright X-19		13.00
881	Boeing X-20 Dyna-Soar		8.00
882	Bell X-1 (1 st gen)		10.00
883	Bell X-1A-C-D (2 nd gen)		10.00
884	N.American X-15A2		10.00 with external drop tanks
885	Douglas D-558- Skyrocket		10.00
886	Gordou Leseure GL.812		12.00
887	Sub-launched ICBM set		Master done – not yet released
888	Vickers Wellesley		Master done – not yet released
889	Westland Whirlwind		Master done – not yet released
890	North American X-10		11.00
891	Lockheed X-7A with Booster		12.00
892	Morane-Saulnier MS.225		11.00
893	Potez 452		12.00
894	Short G-Class		24.00
895	Chengdu Jian-10		10.00 IAI Lavi development
896	Martin-Marietta X-23		8.00
897	Bensen X-25A autogyro with pilot		10.00
898	Bensen X-25B unpowered gyro w/pilot	10.00	
899	French Char D-1 tank 1939-40		10.00
900	Boeing X-48B BWB demonstrator		10.00
901	Boeing X-37		10.00
902	Boeing X-40		10.00
903	Caproni CB Class midget sub		20.00 -completes WWII midget series
904	Boeing X-50 Dragonfly	10.00	
905	NASA X-30 house design		23.00
906	French Char 2C heavy tank 1939-40		10.00
907	Handley-Page Victor K.2		26.00
908	Lockheed Hopeless Diamond		10.00
909	Bugatti 100 Racer		10.00
910	Chengdu FC-1/A-17		10.00
911	Harbin H-5/ Tupolev Tu-28 Beagle		14.00
912	Harbin SH-5 amphibian anti-sub		27.00
913	Lockheed-Martin X-55 AACA		18.00 based on Do 328
914	Consolidated Commodore		19.00
915	Northrop-Grumman FB-23		12.00
916	Lockheed-Martin X-44		12.00
917	Sukhoi T-50		13.00
918	Consolidated XPY-1 Admiral		19.00
919	Martin P6M Seamaster	22.00	
920	Handley-Page Victor B.2 bomber		Planned
921	Piasecki X-49A Speedhawk		11.00
922	Douglas XSB2D Destroyer		10.00
923	Lockheed-Martin F-35A (CTOL)		10.00
924	Lockheed-Martin F-35B (VSTOL)		10.00
925	Lockheed-Martin F-35C (Naval)		10.00
926	Boeing X-51 +ATACMS booster		10.00
927	Chengdu J.14		12.00
928	Shenyang J.20		12.00
929	Shenyang J.16		12.00 (stealth J.11/Su-27)
930	Shenyang J.21/F60 project 31	10.00	

930A	Shenyang J.21/F60updated		10.00 (free to buyers of 930)
931	Hongdu L.15		10.00
932	Soyuz launch set		38.00 incl.launch stage, boosters + 5 payload stages
933	Sikorsky S-42 Clipper	26.00	
934	Martin M-130 Clipper		28.00
935	Boeing 314 Clipper		30.00
936	Douglas AD-1 Skyraider		10.00
937	Northrop BT-1		10.00
938	Douglas XTB2D Skypirate		10.00
939	Lockheed XP-58 Chain Lightning		12.00
940	Hughes XF-11		16.00
941	Republic XF-12 Rainbow		20.00
942	1/200 novelty deck figures set	gift to subscribers	
943	Xian JH-7/FBC-1 Flying Leopard		10.00
944	Bell XP-77		10.00
945	Curtiss XP-71		10.00
946	Republic XP-69		10.00
947	Orbital X-42 RLV		13.00 includes orbital launch system
949	Boeing XB-15		
950	Martin XB-16 Final Design)		
951	Boeing YB-17		
952	Sikorsky SBLR-3		
953	Boeing Y1B-20		
954	Boeing X-45C/X-46		

Decal sheets

Japanese hinomaru		3.00
Swedish roundel		5.00
WWII French	5.00	
Soviet	5.00	
WWII RAF		5.00
WWII Italian		5.00
WWII Luftwaffe	5.00	
WWII USA		5.00
Axis Allies I	5.00	Finland, Hungary, Romania, Slovakia
Smaller Allied Countries		5.00 Holland, Belgium, Norway, Poland French Aeronavale
Axis Allies II	5.00	Spanish Republican and Nationalist, Croatia,
Thailand		

And finally

Thanks to my post transplant medication I have been feeling rather better of late and was inspired to start to tackle the huge list of outstanding jobs about the house and shed. I started with the shed which is groaning with so many aviation magazines that I don't know what I have and couldn't find it if I did. I decided to start with Scale Aircraft Modelling which I had from the first copy until I cancelled my subscription a couple of years ago. I took out anything of interest to file and put on the computer and the remainder hit the recycling bin.

The early copies were so full of useful stuff that I kept about half to two thirds of the magazine. The most recent ones were dumped untouched. I have always thought that a model is a representation of the real thing as it appears at the same apparent size. (1/200 was chosen as ID models as the model looks about the same size as an enemy aircraft when you open fire. 1/72 was chosen so that a 6ft pilot is 1" high and many other scales are multiples or fractions of 1/72. Which is more sensible?). To do this ideally you need photos of the real thing, plans, colour schemes and a model build if you wish. The later SAMs miss out most of these and seem to consist mostly photos of people glueing plastic kits together and then painting them in unrealistic and overcomplicated schemes. Very clever, but is it really a model? So far I have reduced about 5 metres of magazines to about half a metre of useful stuff but have only just started the job. I hope that by the time the nights start drawing in I will have reduced most of the magazines to a few metres of useful stuff. Some happy autumn evenings spent putting these on the computer should result in a useful data base and a lot more space.

Fortunately, all is not lost. Gary Hatcher and his teams at Scale Aviation Modeller International and Model Aircraft not only know that 1/200 exists as a scale but still include photos, plans and colour schemes and long may they continue.

Chris

Finally

**I you wish to contact anyone in this newsletter,
here are the email addresses**

Chris Sayer

christopher.sayer@virgin.net

or chris.sayer@dcemail.com

Wojtek Benzinski

w.benzinski@zen.co.uk

Derek Barratt

metamodels200@virginmedia.com

Paul Howard

paulhoward@helmet-aircraft-200.com

Ron Crawford

ron200hbm@gmavt.net

Carsten Breiting

cb@breitingagent.dk