

Beriev MBR-2bis (Be-2)

Country: Soviet Union

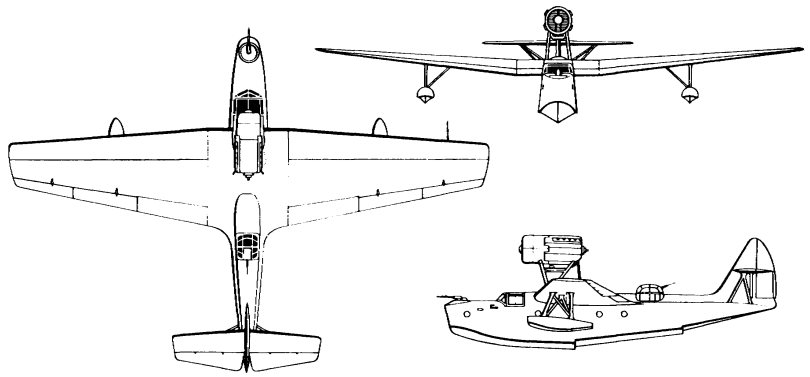
Service Entry Date: Sept, 1936

A/C Type: Short-range Maritime Recon
 Engine(s): One 830 hp M-34B
 Eng. Pwr: 600-hp, air-cooled
 A/C Crew: Pilot, Gunner, Radio operator

Maximum Speed: 165 mph at 16,400 ft
 Maximum Ceiling: 23,400 ft.
 Defense factor: 5 Size Modifier: 0
 Damage Factor: 9/13 Endurance: 145
 Cockpit View: Good Blind Area: Rear,low

Protection: Cockpit +0 Fuel +1 Engine +0
 Climb Dece/ Dive Accel: 2.0 / 1.0
 Weight and Load Limit: 880 / 3-5

Wpn Stations	Weight	Allowed Loads
1,2	440	1x bomb or DC



Class: L

Victory Points: 4-6

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitude		Average
Levels	Bands	Speed	Speed	Dive Spd	TT(1)	HT(2)	BT(2)	ET(3)	Levels	Bands	Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	--	--	--	--	--	--	--	25-30	HI	--
19-24	MH	2.0	2.5	5.5	2.5	4.0	5.0	--	19-24	MH	400/200
13-18	ML	1.5	3.0	6.0	2.5	3.5	4.5	5.5	13-18	ML	800/300
7-12	LO	1.5	3.0	5.5	2.0	3.0	3.5	4.5	7-12	LO	900/400
1-6	VL	1.5	3.0	5.0	2.0	2.5	3.0	4.0	1-6	VL	600/500

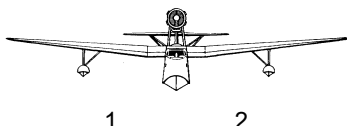
FIRE POWER CHART

Guns	Type	Weapons	Ammo	Criticals
N1	One	7.62mm ShKAS MG	6	4
DG	One	7.62mm ShKAS MG	8	4

GUN ATTACK FACTORS

Rng	N1	VG
0	9	6
1	6	4
2	4	3
3	3	2
4	2	1
5	1	1
6	--	--
7	--	--

WEAPON STATION LOCATION



POWER VERSUS SPEED CHART

		(per engine)				
Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	--	--	--	--	VH
25-30	HI	--	--	--	--	HI
19-24	MH	2	--	--	--	MH
13-18	ML	3	--	--	--	ML
7-12	LO	3	--	--	--	LO
1-6	VL	4	--	--	--	VL
Banking FPs		2	2	4	--	
Side Slip FPs		2	3	5	--	

NOTES AND VARIANTS

Defensive Gun Arc

FG: Front, level to high.

DG: Rear +30, level to high; 6:00 high only

All Beriev MBR-2: A light recon seaplane used throughout the war quite for recon, maritime patrol, and light transport. Quite successful. Could be fitted with skis for winter use.

MBR-2bis (Be-2): Available 1936. Main production model. Use roc to left of slash. Had wheels for land use. About 900 built.

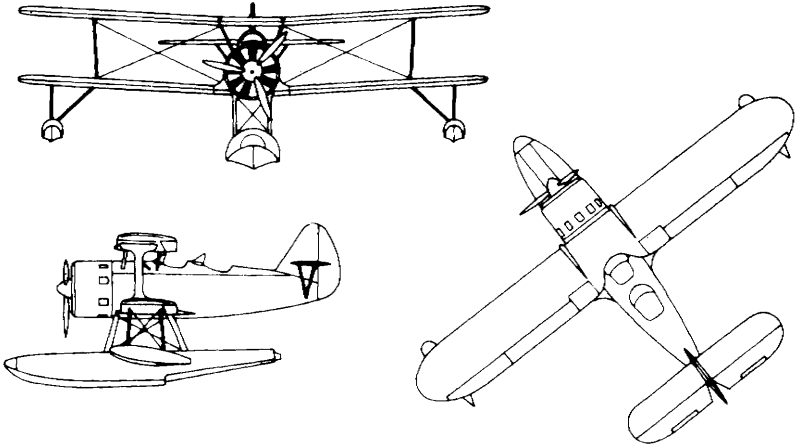
MBR-2M-17: Available 1932. 1st model with smaller engine in lighter aircraft. Ceiling = 19,600 ft; add 0.5 to min speeds for HT & BT turns; use roc to right of slash. About 475 built; many still in use at the beginning of the war. If MBR-2s in use, roll 3- on a D10 to replace MBR-2bis with MBR-2M-17.

Beriev KOR-1

Country: Soviet Union

Service Entry Date: 1937

A/C Type: Ship-borne Scout seaplane
 Engine(s): One M-25A 9-cylinder radial
 Eng. Pwr: 700-750 hp, air-cooled, Non-F.I.
 A/C Crew: Pilot, Observer



Maximum Speed: 171 mph at 6,500 ft
 Maximum Ceiling: 22,966 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 6/9 Endurance: 50
 Cockpit View: Fair Blind Area: Rear Low

Protection: Cockpit +0 Fuel +0 Engine +0
 Climb Dece/ Dive Accel: 2.0 / 1.0
 Weight and Load Limit: 220 / 2-3

Wpn Stations	Weight	Allowed Loads
1,2	220	1x 110 or 2x 55 lb bomb

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitude		Average
Levels	Bands	Speed	Speed	Dive Spd	TT(1)	HT(2)	BT(2)	ET(3)	Levels	Bands	Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	--	--	--	--	--	--	--	25-30	HI	--
19-24	MH	1.5	2.5	6.0	3.0	4.5	5.5	6.5	19-24	MH	300
13-18	ML	1.5	3.0	6.0	3.0	4.0	5.0	6.0	13-18	ML	500
7-12	LO	1.5	3.5	6.0	2.0	3.0	4.0	5.0	7-12	LO	700
1-6	VL	1.5	3.5	5.5	2.0	2.5	3.5	4.5	1-6	VL	900

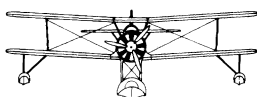
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 7.62mm ShKAS MG	6	4
N2	One 7.62mm ShKAS MG	6	4
DG	One 7.62mm ShKAS MG	6	4

GUN ATTACK FACTORS

Rng	N1	N2	DG	Total
0	9	9	6	18
1	6	6	4	12
2	4	4	3	8
3	3	3	2	6
4	2	2	1	4
5	1	1	1	2
6	--	--	--	--
7	--	--	--	--

WEAPON STATION LOCATION



1 2

POWER VERSUS SPEED CHART

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	--	--	--	--	VH
25-30	HI	--	--	--	--	HI
19-24	MH	2	--	--	--	MH
13-18	ML	2	--	--	--	ML
7-12	LO	2	--	--	--	LO
1-6	VL	3	--	--	--	VL
Banking FPs		2	3	5	--	
Side Slip FPs		2	4	6	--	

NOTES AND VARIANTS

DG: Rear, level to high. 6:00 line high only.

Beriev KOR-1: Available 1937. Single-float ship-borne scout came into service before WW2. By Jun-41, the KOR-1 has been retired from catapult duty. Used in first 9 months as artillery spotter around Black Sea. A few hastily converted to land attack role during the (first) siege of Sevastopol (Oct-41-Jul-42). ? built.

Beriev KOR-2 / Be-4

Country: Soviet Union

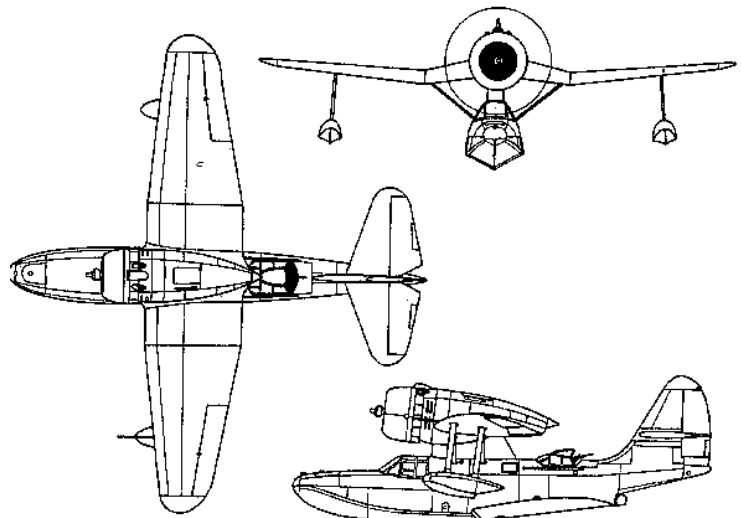
Service Entry Date: March, 1941

A/C Type: Ship-borne Scout seaplane
 Engine(s): One M-62 radial
 Eng. Pwr: 900-1000 hp, air-cooled
 A/C Crew: Pilot, Gunner

Maximum Speed: 225 mph at 15,400 ft
 Maximum Ceiling: 26,500 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 8/12 Endurance: 60
 Cockpit View: Fair Blind Area: None

Protection: Cockpit +0 Fuel +0 Engine +0
 Climb Dece/ Dive Accel: 2.0 / 1.0
 Weight and Load Limit: 660 / 2-4

Wpn Stations	Weight	Allowed Loads
1,2	330	1 lt bomb or depth charge



Class: L

Victory Points: 3-5

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitude		Average
Levels	Bands	Speed	Speed	Dive Spd	TT(2)	HT(3)	BT(3)	ET(4)	Levels	Bands	Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	2.5	4.0	7.5	3.0	4.5	5.5	--	25-30	HI	200
19-24	MH	2.5	4.0	7.0	3.0	4.0	5.0	6.0	19-24	MH	600
13-18	ML	2.0	4.5	7.0	2.5	3.5	4.5	5.5	13-18	ML	800
7-12	LO	2.0	4.0	6.5	2.0	3.0	4.0	5.0	7-12	LO	1,000
1-6	VL	2.0	3.5	5.5	2.0	2.5	3.5	4.5	1-6	VL	1,000

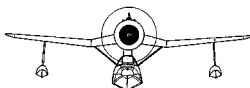
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
DG	One 7.62mm ShKAS MG	8	4

GUN ATTACK FACTORS

Range	DG
0	6
1	4
2	3
3	2
4	1
5	1
6	--
7	--

WEAPON STATION LOCATION



1 2

POWER VERSUS SPEED CHART

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	--	--	--	--	VH
25-30	HI	2	--	--	--	HI
19-24	MH	3	--	--	--	MH
13-18	ML	3	--	--	--	ML
7-12	LO	4	--	--	--	LO
1-6	VL	5	--	--	--	VL
Banking FPs		2	3	5	--	
Side Slip FPs		2	5	7	--	

NOTES AND VARIANTS

DG: Rear, level to high. 6:00 line high only.

Beriev KOR-2 (Be-4): Available Mar-41. Small flying boat that replaced the KOR-1 as catapult-launched ship's scoutplane with more powerful 900-hp M-62 engine. Few built in 1941 before the invasion, when the Germans overran the factory on the Baltic. Redesignated in 1941 as Be-4. New production was delayed until 1943, and even then was at a low rate as priority (read as material and engines) went to producing fighters and fighter-bombers. Some built 1943-45; more built postwar.

Chetverikov MDR-6A (Che-2)

Country: Soviet Union

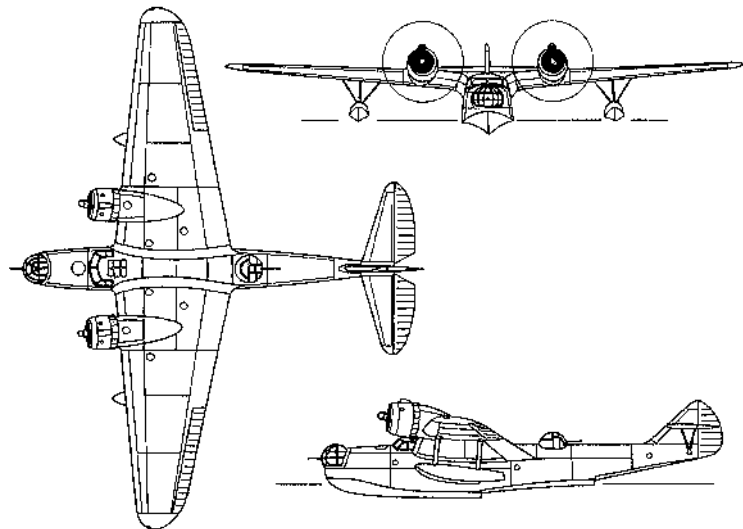
Service Entry Date: March, 1941

A/C Type: Long-range Maritime recon
 Engine(s): 2x M-63 radial engines
 Eng. Pwr: 1920-2200 hp, air-cooled, Non-F.I.
 A/C Crew: Pilot, Observer, 2 Gunners

Maximum Speed: 225 mph at sea level
 Maximum Ceiling: 25,600 ft.
 Defense factor: 6 Size Modifier: +1
 Damage Factor: 16/24 Endurance: 410
 Cockpit View: Fair Blind Area: None

Protection: Cockpit +0 Fuel +0 Engine +0
 Climb Dece/ Dive Accel: 2.0 / 1.0
 Weight and Load Limit: 2200 / 4-8

Wpn Stations	Weight	Allowed Loads
1,2	1100	3x220 lb or 2x550lb or 1x 1100 lb bomb, mine, or DC, or 1 torpedo



Class: M

Victory Points: 6-9

AIRCRAFT PERFORMANCE CHART

Altitude		Minimum	Maximum	Maximum	Min	Min	Min	Min	Altitude		Average
Levels	Bands	Speed	Speed	Dive Spd	TT(3)	HT(4)	BT(-)	ET(-)	Levels	Bands	Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	2.5	3.5	--	--	--	--	--	25-30	HI	--
19-24	MH	2.0	3.5	6.5	3.0	4.0	--	--	19-24	MH	200
13-18	ML	1.5	4.0	7.0	2.5	3.5	--	--	13-18	ML	600
7-12	LO	1.5	4.0	6.5	2.0	3.0	--	--	7-12	LO	900
1-6	VL	1.5	4.5	6.5	2.0	3.0	--	--	1-6	VL	1,200

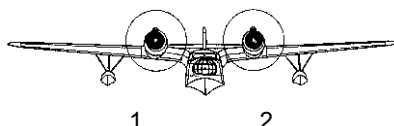
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
FG	One 7.62mm ShKAS MG	8	4
TT	One 7.62mm ShKAS MG	8	4
TT	One 12.7mm UBT	6	3

GUN ATTACK FACTORS

Range	FG	sTT	uTT
0	6	6	9
1	4	4	6
2	3	3	4
3	2	2	3
4	1	1	2
5	1	1	1
6	--	--	1
7	--	--	--

WEAPON STATION LOCATION



POWER VERSUS SPEED CHART

		(Per engine)				
Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	--	--	--	--	EH
31-36	VH	--	--	--	--	VH
25-30	HI	0.5/1.0	--	--	--	HI
19-24	MH	1.0/1.5	--	--	--	MH
13-18	ML	2.0/2.5	--	--	--	ML
7-12	LO	2.5/3.0	--	--	--	LO
1-6	VL	2.5/3.0	--	--	--	VL
Banking FPs		2	4	--	--	
Side Slip FPs		3	4	--	--	

NOTES AND VARIANTS

Defensive Gun Arcs

FG: Front, level to high.

TT: All, level to high; 2:00, 6:00, 10:00 lines high only.

Chetverikov MDR-6: Available 1938. Original version had weaker engines (no Emg power). TT is ShKAS MG (use sTT column). 50 built 1939-41.

Chetverikov MDR-6A (Che-2): Available 1941. Successful long range recon aircraft with high set, slightly gulled wings. Original production version. TT is ShKAS MG (use sTT column). Resdesignated 1941. 50 built 1939-41.

Chetverikov MDR-6B (Che-2): Available 1944. Late war production version upgraded with 1200 hp M-105R liquid-cooled engines: +0.5 power/eng, +200 to roc, Ceiling: 29,500 ft, End: 435. TT is UBT MG (use uTT column). Known to NATO as "Mug," it soldiered on into the 1950s.