

Zink, Timothy "Tim" R.	Zirschv, Leland G. #	Zollers, David "7" W.	Zuber, Thomas P. #	Zuk, Thomas D. #	Zwar, Donald R. #
CLASS 67-501/67-21 68-69 A/123 AVN 23 INF 71 B/228 ASHB 1 CAV Business Exec	CLASS 68-517/68-31 Zitnick, Steven "Steve" M.	CLASS 67-17 68 147 ASHC 68-69 A/159 AVN 101 ABN Farmer/Truck Driver	CLASS 72-9	CLASS 67-12	CLASS 69-29/69-27
Zinke, Jimmy Dan #	CLASS 69-16/69-5 69-70 A/7/1 CAV 69-70 164 CAG Director Human Resources	Zollo, Robert A. #	Zuccaro, Matthew "Matt" S.	Zulberti, Alan J. #	Zwarycz, Gregory DAT
Zino, Richard L. #	Zitnik, Robert J. DAT	Zolman, Gary "Boss" A.	CLASS 69-13 69-70 HHT/7/17 CAV President Zuccaro Aviation	CLASS 69-9	Zwerg, Ralph F. DAT
CLASS 69-3/68-43	Zito, Alvin H. NOT	CLASS 67-22 68-69 B/229 AVN 1 CAV 70-71 20 ENG BDE Retired Civil Service	Zucchelli, Jr. William P. #	69-70 205 ASHC Real Estate	Zwink, Robert R.
Zinsser, Wayne C. #	Zobenica, Peter M. #	Zook, James "Jim" K. #	CLASS 63-2WT	Zumar, Anthony P. #	CLASS 68-21/68-35
CLASS 70-43	SERVICE USMC	CLASS 66-21 Zook Jr. William E. #	Zucco, Anthony Joseph	CLASS 69-49	69-70 118 AHC
Ziolkowski, Alfred #	Zody, Jack E. DAT	CLASS 71-20 Zoraer, Steven J.	CLASS 67-7 67-68 134 AHC Retired	Zumbro, Harold D. DAT	73 AIR AMERICA VIETNAM
Ziolkowski, Gregory	Zoeener, Heinz H. #	Zoo, Theodore M. #	Zuch, Harold A. #	Zumwalt, James W. #	73 ICCS Pilot
CLASS 68-515/68-27 Dept. of Army Civilian	76522-5018	CLASS 70-1/69-49 Zogelman, Mike W.	SERVICE USMC	Zuniga, German #	Zwozdzic, Alan J. "Zwo"
Zion, Robert B. #	Zoo, Theodore M. #	Zorn, Burl A. #	Zuck, Walter S. DAT	SERVICE USMC	SERVICE USMC Trained (USA) 70-42
65 B/1/9 CAV 1 CAV Zipperer, Carl T. *	CLASS 70-11/70-13 70-71 176 AHC Manager	Zschirnt, J. Walter #	Zuehlke, Dennis W. #	Zupan, Terry M. DAT	72 HMM-165
Zipperer, Frank E.	CLASS 67-501/67-23 68-69 61 AHC 71-72 205 AVN Pilot	CLASS 68-503/68-1 1 INF	CLASS 70-32 Zuehlke, Lawrence D. #	Zupancic, David P. #	Div Chief Fed Law Enf Trn Ctr
CLASS 63-8 64-65 118 AHC 68-69 B/9 AVN 9 INF Photographer & Web designer	Zolezzi, Michael A. #	Zube, Daniel E. DAT	CLASS 69-26 Zuehlsdorf, John William KIA	CLASS 70-10	Zvika, John F.
Zipsir, Lawrence M. DAT	CLASS 70-32 Zolter Jr. Geza J. #	Zuber, Gary D. #	Zuschwert, John "John Z" F	Zuooke, Thomas S. #	CLASS 70-2 70 121 AHC
Zirkle, John J. DAT	CLASS 71-21	CLASS 70-11/70-7	Middleburg, VA 20118 CLASS 60-60/58-17 67 269 CAB Farmer	Zurawik, Richard L. #	70-71 335 AHC
Zirkle, Robert S. DAT			Zuk, Anthony I. #	CLASS 68-510 Zurl, John J. #	Zynda, Gerald I. #
			CLASS 71-43	CLASS 70-39 Zutter, Walter F. #	Zysk, Edmund C. #
				CLASS 68-509/68-11 Zuvela, George M. DAT	CLASS 70-10
				Zwaagstra, Bert J. DAT	

SECTION II – The VHPA “Memories of Vietnam” Map Project: by Ron Bower and Jim McLaughlin

In keeping with the traditions set by past VHPA Directories, the Directory Committee presents a few pages to support the theme of this edition – The VHPA “Memories of Vietnam” Map Project. Due to page limits, only a portion of this material is printed in this edition while the full version is on the membership directory web site on <http://www.vhpaservices.com>.

Introduction

Since November 2008, a small group in VHPA volunteers has been working on an exciting “Memories of Vietnam” Map Project for use by all VHPA active members. This project will be going “live” in 2010, and will be demonstrated and discussed in detail at the 2010 VHPA Reunion in San Diego. In the following pages, you will get a peek at some of the ways you might obtain and use these maps (either in paper or online digital formats) and what their future may hold for binding memories amongst VHPA members and potential members, and even graphically telling, showing, and recording the history of helicopter operations in Vietnam.

Project Purposes

The primary purposes of the project are oddly enough not about the maps themselves – the intent is that the maps be just a vehicle to sharpen, record, and share “memories” of events and experiences of VHPA members. How many of us have countless photos, videos, letters, and stories stored in closets or attics of our homes or our minds? These memories and experiences, which often shaped our lives, need to be shared, both with our comrades in arms, and with others – so that they might better understand what the Vietnam experience meant to us.

We all agree with the time proven adage “A picture is worth a

thousand words.” For VHPA members, it might be paraphrased as “The ‘Memories of Vietnam’ Map is worth a thousand spreadsheet data entries or incident reports.” There are volumes of reports, records, databases, unit histories, and orders stored – mostly where no one sees them. We have all seen some individual VHPA incident reports and databases of helicopter statistics – but when you first see the all helicopter pilot KIAs depicted on a color map of the whole country – it gives a whole new reaction and humbling perspective. You can move your computer cursor over the various “red dots”, zoom-in, and click – and the reports, pictures, videos, or written description of the events can appear, as depicted on the cover of this directory. Plus, you will be able to contribute and add your personal perspective to a given place or situation.

Most helicopter pilots operated in regional tactical operation areas. If you had more than one tour, you may have been to more than one area – but for most, we were seeing a relatively small area for a specific period. For some of us, particularly if we operated out of one base for the entire tour, it was like “looking through soda straws” at the country as a whole, and its varying topography, and view at different times. A “Delta” – IV Corps pilot had a very different experience compared to pilot brothers in I Corps or the Central Highlands.

While we all share the "Vietnam experience" – those experiences were unique to each of us. In addition several factors which changed over time (almost a decade) could cause even different experiences at the same location. Some of the changing factors, of which we, as helicopter pilots, had no control – might have been:

- When we were there?
- Where we were "in country?"
- Who we were with – as a unit, with classmates, or friendships?
- What we were flying – A Chinook pilot, a slick pilot, and a gunnie pilot had different experiences based on their missions?
- What the changing political situation back stateside was?
- What and where the enemy was located and capable of doing?
- What our personal situation was?
- And lastly, as depicted in the title of the great book and movie by Gen. Hal Moore, "We Were Soldiers Once – and Young" – we were blazing a new and learn-as-you-go "airmobile" military concept and we were indeed young.

The "Memories of Vietnam Map" will make each of us understand and appreciate more what our brother helicopter pilots were facing in their different situations and as these situations changed.

The Importance of Maps to Helicopter Pilots

In ground combat units, the ratio of personnel actually carrying and reading a tactical map was very small – however, probably more so than in any of the other combat units, individual helicopter pilots in Vietnam depended on tactical topographic paper maps for conducting each of their daily missions. Whether their mission might be an airmobile assault delivering troops into an LZ, conducting aerial recons in "scout" helicopters, providing resupply or logistics support for ground units, rescuing or picking up the wounded, or delivering close-in firepower in "gun-ships," a helicopter pilot was using a tactical map.

Map reading skills were integral to helicopter pilots daily routines. We came to understand why they were called "mission briefings" – often because they were "brief" consisting of a destination location, frequency, and call sign. The location was given in just a map "coordinate" (as an example: XS123456) – and the helicopter pilot used the maps to navigate from his present position to the destination location.

Memories Are Held in Maps

Because of being so highly dependent on tactical maps, these maps often held special memory connections for most pilots. Memories are usually tied to a place, a person or persons, and a unique situation. The "place" of the memory was usually depicted on the tactical map. Unfortunately, because of short supply or even imposed restrictions, most helicopter pilots were not able to bring their tactical maps home. Now, these same vintage maps of Vietnam are once again available for you to obtain at little or no cost. You can order the colored map sheets directly from the USGS government agency in a paper format (see following order forms), or soon, these map sheets will be available for computer download for "free" from the USGS.

Making the Memories of Vietnam Maps Come Alive

Obtaining or having access to maps is a first step – but more importantly is making them "come alive" with relevant information like fire bases, airfields and heliports, landing zones, helicopter incident and KIA locations, and even specific battle locations and descriptions, and much, much more. The coming 2010 VHPA proprietary map project is a quantum leap in map technology and presentation. As is depicted on the front and back covers of this

directory – the online VHPA maps will be able to show places, pictures, and even video, audio, or written text descriptions tied to specific map locations. You, as active VHPA members, will be able to contribute insights and describe events from your cockpit perspective. Following is a general description of how the VHPA "Memories of Vietnam" Map will work – and how it will overcome the common problems associated with map sheets.

The Problems with Paper or Digital Map Sheets

Handling individual map sheets poses some frustrating problems. Historically, it has been a trade-off in balancing the map scale (for detail) with map size (for convenience). A good analogy is a Road Atlas you might have in your car when traveling. In order to be useful, the map scale must be large enough to show the desired detail. However, by increasing the scale, you get less distance covered on a page (map sheet), and tend to run off the edge of the map quickly – when driving. For a soldier on the ground, his movement pace is slow – but at 100+ knots it happens much faster. A frustrating experience we have all had. That same issue usually appears on most websites showing Vietnam maps – where what you want to see is just off the edge of the current sheet or cut-up portion of a small area is shown, making their use slow and frustrating when viewing online.

In Vietnam, most of us had multiple individual map sheets taped together for our Area of Operation (AO). These taped-together maps were often then inserted in a plastic see-through case to protect the map, and so grease pencil notes of coordinates, frequencies, and call signs could be temporarily made on the map. We needed a large scale map (typically a 1:50,000) to get enough detail to find our specific destination or target. Ground units typically used 1:50,000 large scale maps that showed topographic detail to include tree lines, hooches and buildings, roads, trails, and waterways. If you used a 1:250,000 smaller scale map for cockpit convenience, you had to forsake much of the map detail, as shown below. The "Memories of Vietnam Map" project uses the high resolution 1:50,000 scale color topographic maps as its base, showing maximum detail.

Getting the Big Picture

Most Vietnam maps presently shown on the internet are tied to ground units or specific locales. They often depict a single combat operation or even a single battle. Thus, only one or two individual map sheets used may be in total.

But because VHPA members moved much faster than ground units, and operated in the whole country of Vietnam (including even Air Force, Navy rescue helicopter crews operating in NVN, and Air America and periodically Army crews operating in Laos and Cambodia), a much bigger picture is needed to tell the VHPA story, without forsaking the detail of the 1:50,000 maps. The "Memories of Vietnam Map" project provides for basic viewing the entire country (and adjacent border areas) in high resolution, at a tactical detail scale of 1:50,000, on the original maps of the conflict period.

Unique Design Makes the "Memories of Vietnam Map"

easy to use

A very unique characteristic of the Memories of Vietnam map is based on being able to "stitch" or sew together the hundreds of individual 1:50,000 map sheets (some 322 map sheets for just South Vietnam alone) into a single mosaic map. Then the VHPA member will be able quickly move anywhere on the large "seamless" map and can zoom in or out to see the desired details and areas. This design approach, usually referred to as "GIS" (Geographic Information System), eliminates the problems and

frustration of dealing with individual map sheets, described above.

A High Resolution Map Base with Unlimited Transparent Layers

The tactical 1:50,000 topographic maps form the underlying base for Vietnam and bordering areas of operation. You can look at the entire country when zoomed out, or by zooming in - look at very close-in detail, as good or better than when you were looking at a paper map when you were there.

Envision an endless stack of individual transparencies sitting next to the seamless map that show boundaries, bases, airfields, LZs, incidents, battle plans and details, photographs, videos, audio tapes, written stories, links to other web sites about a given locale, or even to Google Earth to see what the country looks like today from a satellite. You will be able to pick the transparent "layer" or "layers" that you want to see, placed on top of the base topographic 1:50,000 map. All of the layers that you select will be correctly placed on the map, since they are all aligned to the map common grid system coordinates.

If you have used either MapQuest or Google Earth satellite maps on your computer – you get some idea of how the Vietnam Memories Map will work. You can get varying "zoom levels" and see varying details or locations and landmarks - and in both useful programs, you can select various "layers" for your own specific uses. Also, like MapQuest and Google Earth, you can't download all of maps at once. You can only download, save, or print the portion that you see on your computer screen.

Member Participation Will Make the Map "Come Alive"

VHPA members will make the "Memories" Map valuable by your submitting information, photos, or descriptions that you experienced. These items can be on a separate or existing layer for

others to see. Undoubtedly, corrections to reports and data errors will now have opportunities to be discovered and corrected.

A Historical Reservoir about Helicopter Pilots in Vietnam

The "Memories of Vietnam" Map could become a significant, first hand reported, reservoir of permanently recorded history about our shared times and experiences in Vietnam. The real success of the project will be determined by VHPA member participation.

An Important Side Benefit: Reconnecting with Other Pilots

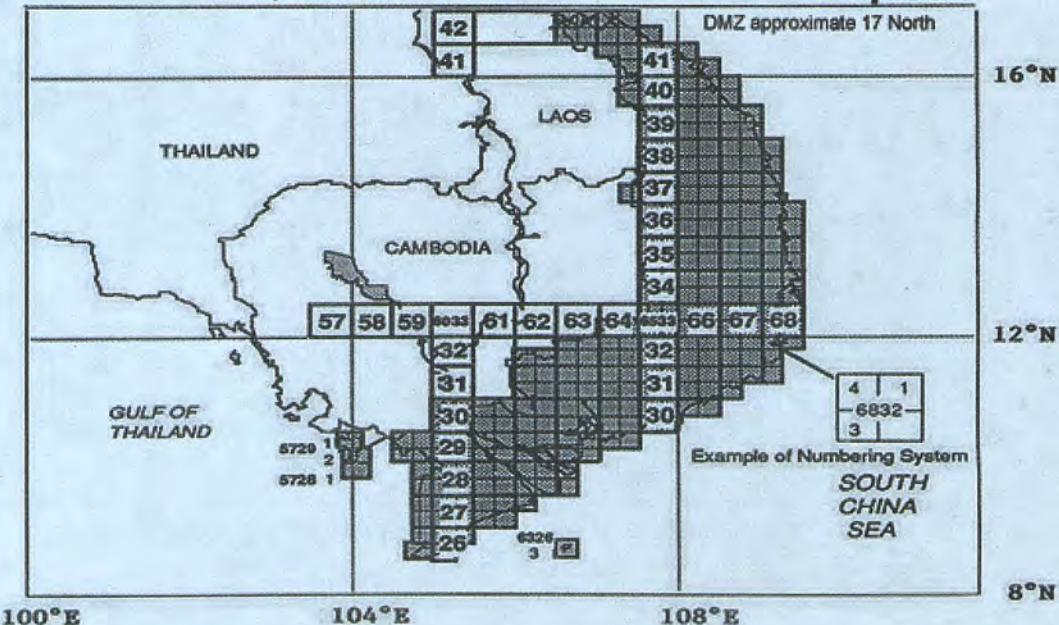
Many of us still keep in contact with other Vietnam helicopter pilots outside of VHPA activities - those classmates, or unit friends will need to know about the "Memories" map. Many of those pilots are not members of VHPA, and may not even be listed as potential (POT) members in this directory, or listed incorrectly. By placing a call, or sending a paper map, or e-mailing a link for them to order a "free" download map from USGS would be a good way to reconnect. Encouraging them to come to the 2010 Reunion in San Diego to get familiar with the "Memories of Vietnam" Map will be even better. It seems to many in distant reflection, that the times we spent in Vietnam are often referred to as: "Some of the best and most significant times of our lives." The teamwork, sacrifice, adventure, happy fun times, and heart breaking sad times were permanently etched into our memories. Unfortunately, many of those memories have been repressed, but not forgotten. Our hope is that this project will unbind those memories and cause friendships to be reconnected for our mutual benefit.

Plan to attend the "Memories of Vietnam" Map presentation at the VHPA 2010 Reunion in San Diego.

How to order a 1:50,000 map

Use the USGS Order Form 67-0002 showed on page 528. Select the map(s) you want by consulting the 1:50,000 Order Guide Map and then the 1:50,000 Map Index Table. All three of these items will appear on the VHPA's www.vhpaservices.com website some time during 2010. The Order Guide Map covers both former North and South Vietnam. The version that covers both the North and the South is called "full version" and will appear on the website. Due to Directory space limitations, a smaller version, for just former South Vietnam, is presented here.

1:50,000 Order Guide Map



Remembering the “read right up” rule for maps, you need the two horizontal digits plus the two vertical digits as shown in the box in the lower right corner of the illustration. This four-digit number (6832) is the key to using the 1:50,000 Index Table. All NGA (National Geospatial-Intelligence Agency) [An agency of the US Department of Defense that manages and provides imagery and geospatial information for diverse military, civil, and international needs.] 1:50,000 maps have a 10-character number. For the Vietnam series the first 5 characters are “L7014” plus the four-digit number explained above plus the “sheet number” (1, 2, 3, or 4) as shown in the box in the lower right corner of the illustration. Thus the first 9 characters “L7014-6832” of the NGA number identify a “quad” of individual 1:50,000 sheets or maps. Since each 50,000 map covers approximately 17 square statute miles or 27.5 square kilometers, the “sheet number” and name can help you get the exact map want. As shown in the box in the illustration, the sheets in the quad are numbered “1” or “I” in the top right, “2” or “II” in the bottom right, “3” or “III” in the bottom left, and “4” or “IV” in the top right.

Assume for example we are interested in a map of the area around the II Corps city of Qui Nhon located on the ocean. The 1:50,000 Order Guide Map suggests the two horizontal digits would be 68 and the two vertical digits would be 34, 35, 36, or 37 but we can’t tell for sure. Therefore we are looking for a sheet with an NGA number of “L7014-683” plus a 4, 5, 6, 7 and we don’t know the sheet number either. We now consult the 1:50,000 Map Index Table.

1:50,000 Map Index Table

The “full version” of this USGS provided table will appear on the VHPA’s website. This table has 9 columns and 507 rows (one for each of the 1:50,000 maps in North and South Vietnam). Due to Directory space limitations, only a few rows are shown here. The codes for the Countries column are: VM - Vietnam, KH - Cambodia, LS - Laos, CH - China; NV - formerly North Vietnam, SV - formerly South Vietnam.

USGS#	NGA #	Name	MapDate	Edition	Countries	NV/SV	SLat	ELong	GeoPDF
61428	L701468351	TUY AN	1965	1	VM	SV	1315	10930	YES
61429	L701468352	TUY HOA	1969	3	VM	SV	1300	10930	YES
61430	L701468353	DONG CAM	1970	2	VM	SV	1300	10915	YES
61431	L701468354	DONG XUAN	1965	2	VM	SV	1315	10915	YES
61432	L701468361	HAI DONG	1965	1	VM	SV	1345	10930	NO
61433	L701468362	PHU HOI	1989	2	VM	SV	1330	10930	YES
61434	L701468363	THACH KHE	1968	2	VM	SV	1330	10915	YES
61435	L701468364	QUI NHON	1969	2	VM	SV	1345	10915	YES
61436	L701468373	PHU MY	1970	2	VM	SV	1400	10915	YES
61437	L701468374	BONG SON	1984	3	VM	SV	1415	10915	YES

As good luck would have it, we can find a sheet name = Qui Nhon in the table. The NGA # is L70146836 which squares with the range of numbers we got from the Order Guide Map. Returning to the Order Guide Map, we can find the 6836 quad. Even on the Order Guide Map you can tell that the right two maps in this quad are mostly ocean while the left two are mostly land. If we ordered L701468364, this is what we would receive.

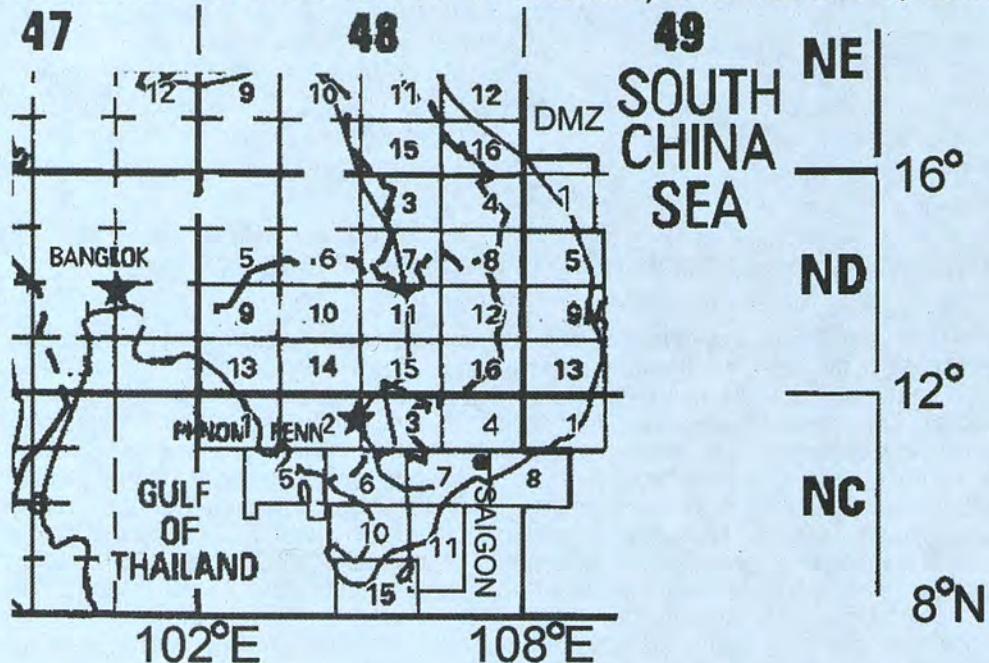
NAME NGA#
QUI NHON **SHEET 6836 IV**
SERIES L7014



How to order a 1:250,000 or JOG map

Please remember that the official name for the 1:250,000 map is Joint Operations Graphic (JOG). We believe most Vietnam pilots called this the “highway” or “road” maps. Again you will use the USGS Order Form 67-0002 showed above. Select the map(s) you want by consulting the 1:250,000 Order Guide Map and then the 1:250,000 Map Index Table. All three of these items will appear on the VHPA’s www.vhpaservices.com website some time during 2010. The Order Guide Map covers both former North and South Vietnam. The version that covers both the North and the South is called “full version” and will appear on the website. Due to Directory space limitations, a smaller version, for just former South Vietnam, is presented here.

SE Asia JOG Grid for Vietnam, Cambodia, Laos



The rule to read the JOG Grid is "read right up, then top, then grid." The goal is to determine six characters. The first two are the two letters [NC, ND, or NE] from the vertical column on the right. Next you need the two horizontal digits [47, 48, 49] from the top. Then take the two digits in the rectangles in the grid. Insert a 0 for rectangles with only one digit. For example, assume we want the JOG map that includes SAIGON (notice the black dot above the SAIGON label in the grid map). The two letters are NC. The horizontal digits are 48. The grid rectangle is 07. This gives the six characters value of NC4807. These six characters are the key to using the 1:250,000 Index Table. All NGA (National Geospatial-Intelligence Agency) [An agency of the US Department of Defense that manages and provides imagery and geospatial information for diverse military, civil, and international needs.] 1:250,000 maps have an 11-character number. For the Vietnam series the first 5 characters are "1501A" plus the six characters mentioned above. Notice the NGA Stock # for the SAIGON JOG map is "1501ANC4807" in the 1:250,000 or JOG Map Index Table.

Tips for Ordering Maps

The current price (subject to change) for paper map sheets ordered from USGS is: 1:50,000 \$9 per sheet and 1:250,000 \$12 per sheet. Shipping via FedEx is just \$5 per order. The downloads of a digital 1:50,000 map sheet to your computer from USGS will begin in early 2010 and they will be free of charge. You can get help from USGS's very friendly map store sales staff in determining which map sheet you need to order by contacting them at 1-800-ASK-USGS. You can order five map sheets by phone. Payment can be made with a major credit card.

1:250,000 or JOG Map Index Table

The "full version" of this USGS provided table will appear on the VHPA's website. This table has 9 columns and 42 rows (one for each of the JOG map covering Vietnam, Cambodia, and Laos). Most JOG maps with portions of Thailand and China are unavailable. Below are 12 of the 21 JOG maps that cover all of former South Vietnam:

USGS #	NGA Stock #	Name	Primary Country	Secondary Countries	S_Lat	N_Lat	W_Long	E_Long
19362	1501ANC4803	PREY VENG	Cambodia	Vietnam	11 00	12 00	105 00	106 30
19363	1501ANC4804	AN LOC	Vietnam	Cambodia	11 00	12 00	106 30	108 00
19364	1501ANC4805	KAMPOT	Cambodia	Vietnam	11 00	11 00	102 45	104 15
19365	1501ANC4806	LONG XUYEN	Vietnam	Cambodia	10 00	11 00	104 15	105 45
19366	1501ANC4807	SAI GON	Vietnam	Cambodia	10 00	11 00	105 45	107 15
19367	1501ANC4808	PHAN-THIET	Vietnam		10 00	11 00	107 15	108 45
19368	1501ANC4810	CA MAU	Vietnam		09 00	10 00	104 20	105 50
19369	1501ANC4811	SOC TRANG	Vietnam		08 30	10 00	105 50	106 50
19370	1501ANC4815	NAM CAN	Vietnam		08 00	09 00	104 30	106 00
19371	1501ANC4901	DA LAT	Vietnam		11 00	12 00	108 00	109 00
19494	1501AND4804	CHAVAN	Laos	Vietnam	15 00	16 00	106 30	108 00
19495	1501AND4808	ATTAPU	Laos	Vietnam	14 00	15 00	106 30	108 00

(Ordering form is on page 528)