吕志洪 国防大学战役教研部副教授,大校。在部队历任排长、连长、作认 侦察科长、副参谋长等职。先后经过初级、中级、高级指挥院校培训。多次立功 现从事战役基础理论的教学与研究工作。撰写出版了《战役总则》、《联合战役 作战》等教材著作,在我军核心期刊和研讨会上发表论文**20**余篇。

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platoon commander, company commander, training staff officer, section chief for reconnaissance, deputy chief of staff, etc; undergone junior, intermediate and higher command college train won several awards and medals;

is teaching and researching in basic theories of Campaigns; major published works include "General Principles on Campaigns' "Air Defense Operations in Joint Campaigns", etc.



利比亚战争及作战特点分析 nalysis of the Libya War and the operation characteristics

吕志洪 Lü Zhihong

利比亚战争,自2011年3月19日至10月31日结束,历时 零12天。

The Libya War commenced on March19th 2011 and minated on October 31st, which lasted for a duration of 7 onths and 12 days.



法、英、美等17个国家,以落实联合国决议为名,对利比亚进行 月的持续空袭,共动用卫星约90颗,飞机约200架、舰艇38艘, 机约2.6万架次,打击目标近6000个,支持利比亚反政府武装推翻 菲政权。

In the name of implementing the UN resolutions, total 17 countrie uding France, Britain and the United States carried out continuous wrikes on Libya for more than 7 months. They employed a total of at 90 satellites, about 200 aircrafts and 38 fleets and ships during the operation. They conducted about 26,000 sorties, attacked nearly 6,0 ets and supported Libyan rebels (anti-government forces) to change Gaddafi regime.



- - 一、战争背景First, the background of war
- 二、简要经过Second, brief introduction of the Libya War process
- 三、主要特点Third, operational characteristics
- 四、几点思考Four, some considerations and reflections about Libya War.





2011年2月16日,利比亚第二大城市班加西爆发示威抗议活动, 国内进行政治、经济改革以及卡扎菲下台。抗议活动迅速蔓延到 的黎波里及多个城市。

On February 16th, 2011, outbreak of protest activities happened ibya's second largest city—Benghazi. The protesting people deman omestic political and economic reforms and also they insisted Gadd step down. The protests quickly spread to the Libya capital —Trip nd other cities.





卡扎菲明确拒绝反对派的要求,并采取强硬措施对付示威活动 致大量人员伤亡。

Gaddafi clearly rejected the opposition demands and took stron easures to deal with the demonstrations, which resulted in a large umber of casualties.





2月26日,联合国安理会的15个理事国一致通过第1970号决议, 马 旧亚实行武器禁运;冻结利比亚政府海外财产;决定对利比亚平 道主义援助;将利比亚局势移交国际刑事法院。

On February 26th, 15 members of the UN Security Council nimously adopted resolution 1970, which required to impose an arr argo on Libya; to freeze Libyan government's overseas property; t vide humanitarian assistance to civilians in Libya; to refer Libya is ne international criminal court.









3月12日, 阿盟正式建议联合国安理会在利比亚设立禁飞区, 并 至与"全国过渡委员会"接触。

3月17日,联合国安理会以10票赞成、5票弃权,通过了第1973 、议。

On March 12th, the Arab League formally advised the UN ecurity Council to set up no-fly zone in Libya, and decided to estab ontact with the "National Transition Council".

On March 17th, the UN Security Council adopted resolution 19 ith 10 votes in favor and 5 abstentions.



•议内容包括:要求利比亚政府立即停止暴力行为,采取步骤满足 合理要求;在利比亚设立禁飞区,禁止所有飞机在利比亚领空飞行 国家采取除派遣地面部队占领利比亚之外的一切必要措施,保护平 战器禁运;扩展联合国安理会1970号决议的旅游禁令和资产冻结。 'he contents of resolution included: necessitating Libyan governme he violence immediately, to take steps to meet the reasonable demain people; the establishment of no fly zone in Libya prohibiting all fts in Libya airspace; the countries concerned should take all neces res to protect their civilians in Libya except sending ground troops y Libya; to enforce the arms embargo; to implement United Natior ity Council resolution 1970 requiring the travel ban and asset freez

利比亚政府军与反政府武装之间虽然出现过一些"大踏步拉锯占 情形,但总体上看不出什么明显的作战阶段划分,也没有特别重力 战行动,只有一些重要的时间节点标志着战争进程。

In Libya War, although there had been some major encounters tween government forces and rebels(anti-government forces), on th ole, no obvious operational phases could be identified, and there w special major combats and operations. We can only identify some portant points which mark the course of war.



价段(3月19日—31日):美军主导,掌控制空权,瘫援并举 价段(3月31日—8月29日):北约空袭,接管指挥权,助利反政府武装地面攻防,夺控首都 价段(8月29日—10月31日):俘毙首脑,利执政当局控制全境

first phase(from March 19th – 31st): led by U.S., to achieve air dominar aralyze government capabilities and support rebels simultaneously.

second phase (from March 31st to August 29th):NATO took over the mand, began the air strikes, and supported rebel forces to launch the ind maneuvers to take control of the capital.

third phase(from August 29th - October 31st) :It marked the decapitation apture and kill the leaders and the authorities controlling the whole co

第一阶段(3月19日-31日):美军主导,掌控制空权,瘫援并举

The first phase(from March 19th – 31st): led by U.S., to achieve air supremacy, to paralyze government capabilities and support rebels simultaneously.

于当地时间3月19日18时45分打响了"第一枪"。 ------ 哈麦丹行动

The French "Rafale" fighters began to attack the Libya government troops were besieging Benghazi.

This attack opened the curtain of the Libya War.

The French called this action as "Harmattan".

第一阶段(3月19日-31日): 美军主导, 掌控制空权, 瘫援并举 The first phase(from March 19th – 31st): led by U.S., to achieve air supremacy, to paralyze jovernment capabilities and support rebels simultaneously.

美英两国的舰艇发射上百枚"战斧"式巡航导弹,打击利比亚防空设施。美 |空军出动B-2隐身轰炸机、F-16、F-15、"狂风"战斗机对利比亚重要军用机 其他目标进行了打击。

Then, U.S. and British ships fired hundreds of "Tomahawk" cruise missiles, ng air defense facilities in Libya. The air forces of Britain and the United State oyed B-2 stealth bombers, F-16, F-15, "Wind" fighters to strike Libya importa tary airports and other targets.



第一阶段(3月19日-31日): 美军主导, 掌控制空权, 瘫援并举 The first phase(from March 19th – 31st): led by U.S., to achieve air supremacy, to paralyze government capabilities and support rebels simultaneously.

"奥德赛黎明行动" "Operation Odyssey Dawn"

- 一是阻止利比亚政府军打击反政府武装;
- one is to stop Libya government forces against the rebels;
- 二是遏制利比亚军队违反禁飞区指令。

the other is to suppress Libya from violating the no-fly zone regulations.

3月20日、21日,多国部队战机继续轰炸利比亚防空设施和重要目标。 On March 20th and 21st, the airplanes of multinational forces continued bombing Libya's air defense facilities and important strategic targets.

走地 的地区

·晴村00月

第一阶段(3月19日-31日): 美军主导, 掌控制空权, 瘫援并举 The first phase(from March 19th – 31st): led by U.S., to achieve air supremacy, to paralyze jovernment capabilities and support rebels simultaneously.

从3月22日起,多国部队打击重点从防空体系转向利比亚政府军地面目标,标志着多国部队 了制空权。

From March 22nd, the multinational forces shifted the focus from the Libyan air defense syst ie ground targets, which means the multinational force has achieved complete air dominance.

从3月26日起,美空军的AC-130"空中炮舰"和A-10II"雷电"攻击机开始参与地面攻击, 上起飞的2架B-1B也参加了对利攻击。

On March 26th, the U.S. air force AC-130 "Air Gunboat" and A-10II "Lightning" attack air gan to participate in the ground attack. The two B-1B planes taking off from the United States rticipated in the attack.

第一阶段(3月19日-31日): 美军主导, 掌控制空权, 瘫援并举 「he first phase(from March 19th – 31st): led by U.S., to achieve air supremacy, to paralyze jovernment capabilities and support rebels simultaneously.

截至3月27日,多国部队共出动飞机1602架次,总计发射"战斧 巡航导弹199枚。

Until March 27th, the Allied aircrafts conducted 1,602 sorties and unched 199 "Tomahawk"cruise missiles.



第一阶段(3月19日-31日):美军主导,掌控制空权,瘫援并举 「he first phase(from March 19th – 31st): led by U.S., to achieve air supremacy, to paralyze government capabilities and support rebels simultaneously.

到3月30日,持续12天的"奥德赛黎明行动"正式宣告 束,最初阶段的任务完成。

By March 30th, 12 days "Operation Odyssey Dawn" me to an end.

基地

The U.S. Defense Secretary Robert Gates said the initial age of the mission was completed.



美国防部长盖 U.S. Defense Secretary I







第二阶段(3月31日-8月29日): 北约空袭, 接管指挥权,助利反政府武装地面攻防,夺控首都 The second phase (from March 31st to August 29th):NATO took over the command, began the air strikes, and supported rebel forces to launch the ground maneuvers to take control of the capital.

3月31日北约接管指挥权。法英开始承担主要作战任务,担负了90% E袭任务和绝大部分海上作战任务。美军负责支援保障,承担了77%的空中力 h, 27%的侦察监视以及几乎全部的电子战任务,并为盟国紧急提供了2.5亿美 E的精确制导弹药。

On March 31st, NATO took over the command, British and France egan to carry out the main operational tasks, covering 90% air strikes and mo f maritime combat tasks. The U.S. military was in supporting role, such as 779 f air refueling, 27% of reconnaissance and surveillance tasks and almost all of ne electronic warfare tasks. U.S. also provided precision guidance ammunition osting about \$250,000,000 for Allied countries.



第二阶段(3月31日-8月29日): 北约空袭, 接管指挥权, 助利反政府武装地面攻防, 夺控首都 The second phase (from March 31st to August 29th):NATO took over the command, began the air strikes, and supported rebel forces to launch the ground maneuvers to take control of the capital.

3月31日,出动178架次飞机。随后这一阶段平均每天出动飞机约138架次。

On March 31st, altogether 178 air sorties were executed. Then onwards NATO maintained average 138 air sorties daily,





第二阶段(3月31日-8月29日): 北约空袭, 接管指挥权, 助利反政府武装地面攻防, 夺控首都 The second phase (from March 31st to August 29th):NATO took over the command, began the air strikes, and supported rebel forces to launch the ground maneuvers to take control of the capital.

5日,美国表示利比亚战争已陷入僵局。 April 15th, U.S. declared that the Libya War had come to a deadlock.

3日,反政府武装宣布已完全控制第三大城市米苏拉塔。

真龙 (2)

June 13th, the rebels announced that it had fully controlled the third biggest city---Misurata.

利比亚

1912年1月2日(A) 日耳伯 A) 月克罗蒂里

25日,美再次表示利比亚战争陷入僵局。 July 25th, U.S. declared that the Libya War came to a deadlock again.

20日,反政府武装攻入的黎波里。 The evening of August 20th, the rebels attacked into Tripoli. 第二阶段(3月31日-8月29日): 北约空袭, 接管指挥权, 助利反政府武装地面攻防, 夺控首都 The second phase (from March 31st to August 29th):NATO took over the command, began the strikes, and supported rebel forces to launch the ground maneuvers to take control of the ca

Second, brief introduction of the Libya War process

- 29日反政府武装宣布已完全控制首都的黎 里。
- 扎菲只剩下苏尔特、拜尼沃利德、塞卜哈、 F拉城镇。
- August 29th, the rebels declared they had en full control of the capital -Tripoli. At this e, Gaddafi troops occupied only 4 towns e Soult, Bani Walid, Seb, Jufrah.





第三阶段(8月29日-10月31日): 俘毙首脑,利执政当局控制全境 The third phase was from August 29th - October 31st: It marked the decapitation i.e. to capture and kill the leaders and the authorities controlling the whole country.

平均每天出动飞机约50架次。 Fhe average air sorties were about 50 per day

伊斯特尔

基地

尼 的黎波里 米苏拉塔 《班加西 斯 费坦 文季达比耶 禁飞区 利比亚 第三阶段(8月29日-10月31日): 俘毙首脑,利执政当局控制全境 The third phase was from August 29th - October 31st: It marked the decapitation i.e. to capture and kill the leaders and the authorities controlling the whole country.

Second, brief introduction of the Libya War process

日和22日,分别攻占朱夫拉、塞卜哈。 ptember 5th and the 22nd, the ruling authorities upied Seb, Jufrah.

6日,攻占拜尼沃利德。 ctober 16th, the ruling authorities entered Bani ·

0日,卡扎菲被抓获击毙。 ctober 20th, Gaddafi was captured and killed he wanted to escape from Soult.



第三阶段(8月29日-10月31日): 俘毙首脑,利执政当局控制全境 The third phase was from August 29th - October 31st: It marked the decapitation i.e. to capture and kill the leaders and the authorities controlling the whole country.

利比亚

月23日,利比亚执政当局宣布全国解放。 October 23rd, the Libya ruling authorities clared the liberation of the country. 月31日,北约宣布利比亚战争结束。 October 31st, NATO announced the end of war in Libya.

基地





- 多国部队与利政府军之间实力的不对称;
- in strength between multinational forces and government forces
- 利政府军与反政府武装之间作战能力的不对称;
- in combat capability between government forces and anti-government forces 美国与欧洲国家之间军事能力的不对称;
- in military capability between U.S. and European countries 国际干预力量与制衡力量之间的不对称。
- in balance of power between international intervention and counterweight



-)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

反应快速突然

正秘

Quick and sudden response

一是危机爆发后迅速在利周边海域 较大规模海上威慑及作战力量

One — after the outbreak of the s, United States, British, France other countries quickly rallied e-scale offshore deterrence and ting force in the Libyan ounding seas in the name of the uation of their overseas residents. "企业"号航母 "Enterprise" aircraft carrier 1 "奇尔沙治"号两栖攻击舰 "Kearsarge" amphibious assault ship 1 "庞塞"号两栖船坞运输舰 "Ponce" amphibious transport dock 1 导弹巡洋舰 Guided missile cruiser 1

<u>导弹驱逐舰 Missile equipped destroyer 4</u>

<u>导弹护卫舰 The guided missile frigate 2</u>

- 其他军舰 Other warships 1
- 搭载各型飞机 types of aircraft 70

Characteristics of military strike to Libya from multinational troops

因吉尔利克

、反应快速突然

亚地

Quick and sudden response

一)多国部队对利比亚军事打击的主要特点

特旧

二是在联合国通过"禁飞区"决议后48小时 即开始对利实施空袭

Two — 48 hours after the "no-fly zone" olution issued by UN, air attack was launched. vas sudden. "阵风"式战斗机 "Gust" fighter

土耳其

《班加西

皮季达比即

制化可

B-2隐身争 B-2 stealth b

Characteristics of military strike to Libya from multinational troops

反应快速突然

Quick and sudden response

一)多国部队对利比亚军事打击的主要特点

阿维亚诺

三是边打击边前靠,快速完成前沿部署

Three —— to hit the target while approaching it, the rapid deployment in the frontline could be asily accomplished.





法国"戴高乐"号航母 France "De Gaulle" aircraft d

法多国部队打击利比亚军力调动部署图 The deployment diagram of the allied troops fighting against the Libya forces 空军基地 北海 丹麦 (大不列聲) 联合王国) 迈尔哈姆 德国 2日 カロ歩き 圣迪济耶 第戎基地 法国 意大利 土伦港 伊斯特尔 黑海 科西嘉岛 t tib 四班牙牙 易安尼托 きかで 安全 悪 北 部门市岸 戴高乐航母 突尼斯 到开力口声响 托布鲁克 的影響被理 米苏拉塔 艾季达比亚 **あ**ち/水林寺 ト雷力ロ 利比亚 埃及 IFY P 22军 其 1也 11月11日 海军基地 潜艇 禁飞区

一)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

土耳其

埃及

察情报给力 Credible and reliable reconnaissance intelligence

多国部队利用侦察卫星、预警机、有人和无人侦察机以及 力情报,构成了全天候、立体化的侦察监视体系。

The multinational troops used reconnaissance satellites, /ACS, manned and unmanned surveillance aircraft and nan intelligence to constitute all-weather and threenensional reconnaissance system.

基地

怒归

利比亚
因吉尔利克

土耳其

察情报给力 Credible and reliable reconnaissance intelligence

一)多国部队对利比亚军事打击的主要特点

新飞区利比亚

国的"锁眼-12"、"长曲棍球"和法国的"太阳神-2B"等 星对利比亚机场、指控中心、雷达设施及导弹阵地等进行 侦察;

merican "Keyhole – 12", "Lacrosse" and the French "Apollo ad carried detailed reconnaissance on the airports, and center, radar facilities and missile bases in Libya;

基地

土耳其

埃及

● 女垂法比耶

利比亚

察情报给力 Credible and reliable reconnaissance intelligence

(一)多国部队对利比亚军事打击的主要特点

"全球鹰"无人机、"哨兵"侦察机、E-8C侦察机、E-3预 等空中侦察装备获取了大量高精度、近实时情报;

"Global Hawk " UAV, the "Sentinel" surveillance aircraft, E-ACS, E – 8C surveillance aircraft had accessed a large int of high precision, near real-time intelligence;

悲地

耳耳

察情报给力 Credible and reliable reconnaissance intelligence

-)多国部队对利比亚军事打击的主要特点

法英等国的特种部队人员对机场、补给线、雷达、防空武器 标进行侦察,并利用便携激光指示器,为战机攻击直接指示 、。

British and French special forces made reconnaissance to the orts, supply lines, radars, air defense weapons, and used able laser pointer to direct the targets for warplanes.

悲地

打击精确高效 Precise and effective attack

与前几场战争广泛选择军事、政治、经济等目标实施高强度打击相比 次战争西方国家在力量投入、打击目标的种类和数量、打击强度等方 均十分有限。但作战中多国部队动用了大量高新武器装备,并广泛使 精确制导武器,成为一大亮点,实施海、空联合非接触精确打击,效 显著。

多国部队对利比亚军事打击

Compared to previous highly intensive attacks mostly targeting litary, political, economic facilities, the operation was very limited in the wer input, the amount and type of target and attack strength. But ultinational troops in combat used a large number of high-tech aponry and equipment, and widely used precision-guided weapons, uch became a major bright spot. The joint air-sea non-contact precision eack showed remarkable effect.



土耳其

打击精确高效 Precise and effective attack

- -,在打击方式上,海空一体、"软""硬"结合
- st, in the mode of attack, air and sea are joined with the combination of and "hard" methods.

)多国部队对利比亚军事打击的主要特点

空中投掷精确制导弹药和舰艇、潜艇发射"战斧"巡航导弹相结合; J击与电子战、心理战、网络战相配合。

s, the combination of precision-guided munitions and ship, submarine hing "Tomahawk" cruise missiles; the combination of real attack and onic warfare, psychological warfare, and cyber warfare to enhance at effectiveness.



-)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

打击精确高效 Precise and effective attack

第二,在打击目标的选择上,突出"三打"

econd, the target of attack emphasizes three types of attack.

一是"主打"战略要地军用目标

One — mainly attack strategic military targets.

机场、导弹阵地、兵营、物资仓库、地面部队以及指挥机构等。 pparently the targets included airports, missile positions, barracks, rial warehouses and ground troops and command posts etc.

金毛圧力的死



一)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from Characteristics

尔

及

利亚

多国部队轰炸利比亚示意图

寬里:

● 村耕

日 争议地 〇 反对派

■ 法油「★ 室田市

乍得

X.ak

尼日尔

打击精确高效 Precise and effective attack

第二,在打击目标的选择上,突出"三打"

法国

econd, the target of attack emphasizes three types of attack.

"首打"防空体系目标

更龙

基地

------ attack Libya air defense system first.

主要是打雷达、制导系统等。

Mainly attacked air defense radar and guided system.

利比可

打击精确高效 Precise and effective attack

第二,在打击目标的选择上,突出"三打"

econd, the target of attack emphasizes three types of attack.

"重打"对反政府武装构成直接威胁的主战装备

—— heavily attack the main equipment posing a direct threat to ti-government forces.

)多国部队对利比亚军事打击的主

要是打苏-24对地攻击机、打增援或撤退途中沿公路机动的坦克、 炮以及停放于兵营内的装甲车辆。

the air, mainly attack Su-24 ground attack aircraft; to the ground directly attack government troops tanks, self-propelled artillery cing or retreating along the road and armored vehicle parking in rracks.





打击精确高效 Precise and effective attack

三,在作战飞机的选择上,以多用途战斗机和近距空中支援飞机为主 hird, the choice of combat aircrafts are mainly multi-functional fighter and close r support aircraft.

利比亚战争多国部队较少使用轰炸机,而是以"阵风"、"台风"、"狂风, 用途战斗机为主。战争初期主要用于夺取战场制空权,之后主要实施对重要 的精确打击,各型战斗机共150余架,占全部作战飞机数量的75%。 In Libya War, multinational forces less used bombers, but "Gust" "Typhoon" e" and other multi functional fighters. At the beginning of the war, they were ly used to capture the battlefield air dominance. After that, it was the sion strike to the important targets, deploying more than 150 fighters of us types, occupying 75% in the total number of combat aircrafts.



打击精确高效 Precise and effective attack

三, 在作战飞机的选择上, 以多用途战斗机和近距空中支援飞机为主 hird, the choice of combat aircrafts are mainly multi-functional fighter and close r support aircraft.

-) 多国部队对利比亚军事打击的

3于利比亚政府军将重型装备藏匿在城区,高速战斗机识别目标难度大、易造成附带 等问题,多国部队在完全夺取制空权后,又派出打击精度高,并可实时攻击的AC--IA--10攻击机、"阿帕奇"和"虎"式武装直升机等低空低速攻击机,对政府军运动 进行精确打击,为反政府武装提供近距空中支援。

Because Libya government troops hid heavy equipments in the city, in addition the speed aircrafts had difficulties recognizing the targets and easily caused collateral ege, the multinational forces after getting air dominance employed AC-130 and <u>A-10</u> ker with high precision and real-time attack. The low altitude and low-speed attacker pache" and "Tiger" armed helicopters etc. launched precision strikes against moving ts of government forces, providing close air support for the anti-government forces.



cedented. In Kosovo, Afghanistan and Iraq, 35%, 60%, and 68% of ammunition were those

tively.





- 、打击精确高效 Precise and effective attack
- 第五,在发现目标到实施打击的周期上,从海湾战争的3天、科索沃战争的101分钟、阿富 争的19分钟、伊拉克战争的12分钟,缩短到几分钟之内。
- Fifth, it takes shorter and shorter duration from finding the target to attacking it. It took 3 in Kosovo War, 101 minutes in the Gulf War, 19 minutes in Afghanistan War, 12 minutes in War. Now it has reduced to a few minutes. It improved the combat effectiveness to the euvering target.



三、主要特点(一)多国部队对利比亚军事打击的主要特点 Characteristics of multinational troops

Characteristics of military strike to Libya from Iltinational troops

网络电磁装备、特种部队和无人机作用凸显

easingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

在利比亚战争中,网络电磁装备作战运用有新动向。美军利用软件病毒等恶意程序向接收 线发送数据实现无线注入,攻击利政府军队的通信系统、雷达站,以系统管理员的身份接管 个网络,窃取情报信息,并迅速提供给反政府武装。

The Network Electromagnetic Equipment has operational application in Libya War. nerican Army used malicious program, like software viruses to send data into the receiving tenna to realize wireless penetration, so the communication system and radar station of Libya vernment forces were attacked. In this way, the Libya ground air defense system was in a stat "paralysis" or "death"; It pretended to be the administrator of the system to take over the ole network, collect intelligence, and quickly provide them to the anti-government forces.



网络电磁装备、特种部队和无人机作用凸显

easingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

种部队作用有三:一是侦察收集情报,为空袭提供地面信息;二是培训指导反政府武装作品 提供情报和制定作战计划;三是协调北约空袭与反政府武装的地面作战。

becial Forces also played an important role in Libya War. It mainly performs three functions: the reconnaissance intelligence collection to provide ground information to air attack; to train and guide anti-government forces in combating, providing them information and ma

ion plan; is to coordinate NATO air attacks and anti-government ground operations.





网络电磁装备、特种部队和无人机作用凸显 reasingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

- 《纽约时报》称:北约空袭精确度的提高和反对派出人意料地攻占的黎波里,与特种部队的 可分"。
- *New York Times* said that it was inseparable between the increased accuracy of NATO air atta ected capture of Tripoli by the anti-government troops and the role of special forces.



网络电磁装备、特种部队和无人机作用凸显 reasingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

一)多国部队对利比亚军事打击的主要特点 multinational troops

战争前4个月,无人机承担了美军战机397次打击中的145次,约 6,发挥了打击地面重要目标的显著作用。

n the first 4 months of the war, among the 397 attacks by U.S., AV occupied 145 attacks, so it played a significant role in ing important ground targets.



"全球鹰" ''Global Ha

Characteristics of military strike to Libya fro

网络电磁装备、特种部队和无人机作用凸显 ceasingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

一)多国部队对利比亚军事打击的主要特点 multinational troops

Characteristics of military strike to Libya fro

「次投入作战使用的第30批次"全球鹰"无人机,配备最新研制的"合成孔径雷达-动目标指 具有动目标跟踪能力,能发现10平方公里范围内车辆大小的移动目标。装备的"增强型综合 "备"可全天时、全天候对静止目标进行侦察,生成分辨率高达0.3米的图像。 For the first time, the thirtieth batches of "Global Hawk" UAV was put into use. It was equipped est developed sensor, "synthetic aperture radar - moving target indication", with the capabiliting moving targets and locating moving and vehicle-sized targets within 10 square kilometers. nent with "enhanced integrated sensor" can be all-weather and all-day to conduct reconnaissationary targets, the generated image with the resolution of 0.3 meters.



网络电磁装备、特种部队和无人机作用凸显 reasingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

(一)多国部队对利比亚军事打击的主要特点 Characteristics of multinational troops

- < 力侦察兵"无人机首次实现舰载部署,为美军舰艇提供近 情报支援。
- ire Scout" UAV for the first time achieved shipboard nent to provide operational offshore intelligence support to ips.





Characteristics of military strike to Libya fro

网络电磁装备、特种部队和无人机作用凸显 reasingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

苏拉塔

利比司

《肝加武

-)多国部队对利比亚军事打击的主要特点

'对混迹于平民中的利比亚政府军和反政府人员很难识别出来,'捕'则可以飞得更低,更好地确认目标,有助于从敌人中挑出朋友"。 'It is difficult to identify the Libya government forces mixed in the ans and anti-government personnel, 'Predator' UAV can fly lower and r identify friends from the enemy".

基地



"捕食者"无人机



美参联会副主席卡特赖特 Cartwright, vice Chairman of the Joint Chief

网络电磁装备、特种部队和无人机作用凸显 reasingly importance of Network Electromagnetic Equipment, Special Armed Forces and UAV

alff加强

利比量

)多国部队对利比亚军事打击的主要特点

美《纽约时报》8月21日报道:北约官员称,"捕食者"无人机对 战局"发挥了关键作用",对利比亚政府军的侦察、跟踪卓有成效。 *New York Times* on August 21st reported, a NATO officials said, dator" UAV "played a key role" in turning the point in the operation. effective for the reconnaissance and tracking for the Libya rnment troops.

基地

帮旧



"捕食者"无人机"Pree

RC-135"联合铆钉"电-RC-135" Rivet Joint " reconna

、作战持续时间长 Long lasting combating time

海湾战争42天,科索沃战争78天,伊拉克战争主要作战行动21天,而 亚战争却持续了227天。

一)多国部队对利比亚军事打击的主要特点

ompared to 42 days Gulf War, 78 days Kosovo War, 21 days major

tions in Iraq War, 227 days Libya War is comparatively long.





、作战持续时间长 Long lasting combating time

对这场战争,北约原计划90天。到6月1日,不得已决定将利比亚战争 E长90天。到9月21日,北约又不得不决定将战争行动再次延长90天。

-)多国部队对利比亚军事打击的

NATO planned to complete the war not more than 90 days. But by June nad to extend the Libya operation to 90 days. On September 21st, NATO ecided to extend another 90 days once again.

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点(一)多国部队对利比亚军事打击的主要特点 Characteris multinational t

Characteristics of military strike to Libya from multinational troops

、作战持续时间长 Long lasting combating time

以法国为代表的欧洲,在这场战争中,表现得"有心无力" 个重要原因。

France was the representative for Europe. During the war, it 'strong faith but no true strength''.





耳其

法国总统萨科齐 French President Jacque 、作战持续时间长 Long lasting combating time

法国就是要卡扎菲政权下台。这样可以控制利比亚,建立地中海联 战略意义重大,也可以避免由于其轻率的外交决策导致的尴尬局面, 以凭借其第一个承认班加西政权的资本,在未来的利比亚格局中获 大的战略利益。

France took as a vanguard instead of U.S., quite active, fired the first It had strong resolution and active attitude to throw Gaddafi out the ne. So it will control Libya and establish Mediterranean Union, n showed strong strategic significance. So it will control Libya and lish Mediterranean Union, which showed strong strategic ficance. So even if France made reckless foreign policy decision ng embarrassing situation, it can obtain the maximum benefit in the e of Libya pattern because it is the first to admit the regime in hazi.

-) 多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops



法国总统萨科齐 French President Jacques 、作战持续时间长 Long lasting combating time

ī在这场战争中起决定作用的美国,则显得较为犹豫和复杂, •有力无心",是又一个重要原因。

(一)多国部队对利比亚军事打击的主要特点 multinational troops

J.S. may play a decisive role in the war, but it appeared vely hesitant and complex-minded.

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Characteristics of military strike to Libya fro

美国总统奥巴马 American President Oba (一)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

、作战持续时间长 Long lasting combating time

虽然美军起了决定作用,但是离全力以赴还差得太多。

Although American troops played a decisive role, they did t go to it with all efforts.

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美国总统奥巴马 American President Oba 一)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

、作战持续时间长 Long lasting combating time

北约方面,由于作战目的坚决,而欧洲力量不足,美国又不用 从而作战持续时间长。

It is also because of NATO firm objective, the Europe without gh strength and U.S. not going it with all efforts , thus the tion of the war was extended. This is also another reason.





美国总统奥巴马 American President Oba -) 多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

指挥关系临时变更 Temporarily changed command relationship

·是临时启用美军非洲司令部

ne —— United States Africa Command was established perform command and coordination function for ultinational troops.



美"惠特尼山"号两栖指挥; "Mt. Whitney" amphibious command

前期组织筹划时间紧,没有组建统一协调的多国部队司令部的情况下,临时启用美军非洲司 联军行动的指挥与协调。一线指挥部暂时设在美"惠特尼山"号两栖指挥舰上,法、英空中 指挥。

the early stage, the organizational planning time was tight. There was no one unified Comma r multinational forces, so United States Africa Command was established to perform comman action function for multinational troops. The frontline command post was temporarily located by" amphibious command ship of U.S., and British and French air forces were still commande lves respectively.

指挥关系临时变更 Temporarily changed command relationship

-)多国部队对利比亚军事打击的

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美军非洲司令部司令卡特·哈姆 Commander of U.S. Africa commandCarter

美国代号为"奥德赛黎明行动"(Operation Odyssey Dawn),法国代号为"哈麦丹行 peration Harmattan),英国代号为"艾利梅行动"(Operation Ellamy),加拿大代号为 "(Operation Mobile)。北约从美军手中接手指挥权后,才将作战行动代号统一为"联合 动"(Operation Unified Protector)。

U.S. codenamed was "Operation Odyssey Dawn", the British codenamed was "Operation ny", France codenamed was "Operation Harmattan", Canadian codenamed was "Operation ile". After NATO took command from U.S., operation code was reunified as "Operation Unifi ector". た(一)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

指挥关系临时变更 Temporarily changed command relationship

是临时启用美军非洲司令部

ne —— United States Africa Command was established perform command and coordination function for ultinational troops.

伊斯特尔のうろろ利



是战中变更指挥权

Self Strat

基地

vo — to change the command during the war.



北约盟军总司令詹姆斯·斯塔夫里迪斯 NATO's allied commander in chief James Stavridis

美军非洲司会 特・哈 Comman U.S. Africa Carter H (一)多国部队对利比亚军事打击的主要特点 Characteristics of military strike to Libya from multinational troops

对地支援一度误伤频频Frequent collateral damages in ground support

E反政府武装本身军事素养太差; tly, it is the poor quality of anti-government troops;

全与反政府武装之间没有空地协调的有效装备。 ondly, there is not effective coordination for air and ground pment with anti-government troops.



The main combat features of the Libya government th

投分散,灵活隐蔽,躲避空袭

基地

sized and distributed, flexible and concealed to avoid air attack.

寺点(二)利比亚政府军作战的主要特点

系取"小股分散、灵活隐蔽"的战术,增大 国部队空袭的难度,有效保存了一定的军力。 时,藏军于民;作战时,伪装成敌。 It took "small-sized and distributed, flexible oncealed" tactics to increase the air attacks ulty of the multi-national forces, so it rively preserved military strength. In ceaseime, troops were hidden in the mass.



The main combat features of the Libya government the

运动攻防,开展狙击,减轻城镇攻防作战压力

湛脉

nse and defense by moving, and carry out sniping to reduce the pressure of urban combat.

二)利比亚政府军作战的主要特点

取"停下就打、打了就跑"的战术,缩短与反政府武装的交战时 北约与反政府武装难以"空地协同"。同时,"以小对小,以散 ,分散反政府武装的力量部署,减小争夺重要据点时的压力。 ake the "stop to hit, hit and run" tactics, so the engagement time ortened and "air-ground cooperation" between NATO and antiment forces was hardly accomplished. At the same time, "use the gainst small, scatter against scatter", dispersed opposition force ment, reduced contention stronghold through moving.





运动攻防,开展狙击,减轻城镇攻防作战压力

ing offense and defense, carrying out sniping, reduce the pressure of urban combat.

二)利比亚政府军作战的主要特点

充分利用狙击行动目标小、隐蔽灵活、便于机动等特点,不仅有 除伤和消耗了反政府武装的有生力量,而且在很大程度上增大了 政府武装的威慑,分散了其力量部署,减轻了政府军在正面战场 压力。

It made full use of the characteristics of small and concealed ration targets as well as flexible maneuverability to facilitate not only ctively kill and consume the effective strength of anti-government es, but also largely increase the deterrence and disperse the force oyment to reduce the pressure.









The main combat features of the Libya government t

锋相对,加强舆论宣传,力争民众支持

r tat, strengthen the publicity, gain support from the masses. NATO is the public opinion ganda master, but Gaddafi is not too bad, either.





The main combat features of the Libya government t

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- 1、利比亚战争,在作战时机的把握、战局的控制上,对未来联合 战筹划具有重要的借鉴意义。
- 1.The Libya War has significant reference values for planning of jo perations in the future in terms of operations opportunity and contucombat.





过慢打,打得利比亚政府分化,打得反政府武装有了战斗力,打得利执政当 取得越来越多的国家认可,打得民众清楚了卡扎菲的独裁腐化,不仅获得了 略利益,而且付出的代价也相对较小。

Due to the slowing down of the progress of war, there appeared the division or Libyan government, the rebels had gradually gained fighting capacity, the ruli orities achieved diplomatic recognition from more and more countries, and dafi's corrupt life was revealed to the people. So by slowing down the pace or gress of war, U.S. won the ultimate strategic interests with relatively minimum





。肝加西

利比可

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美国副总统拜登 **5. vice president Biden** 美国副总统拜登毫不隐讳地说:"利比亚战争 取的策略将成为美国未来解决类似世界问题开出 一剂良方。"

U.S. vice president Biden revealed that "The strategy that U.S. adopted in Libya War will bece a perfect prescription for America to solve simila problems around the world in the future."

埃及



2、建立信息系统完备、要素齐全、精干高效的常设联合作战指 机构,对有效应对战争及突发事件意义重大。

2. The competent and efficient joint operations command and control arrangement with complete information system and elements is of great significance to deal with wars and eventualities or contingencies.





- 3、今天的世界仍然是一个讲实力的世界,追求和平与发展,还是要有军事刻保证,特别是联合作战能力,越是追求和平与发展,越需要提高联合作战能 好联合作战准备。
- . The world today is still a talk about the strength. If we want to pursue globa ace and development, we must have the military strength first, especially the j erations capability. The more we want to pursue world peace and development e more we should improve the joint operations capability. And we should be epared for joint operations.





越是追求和平与发展,就越需要提高联合作战能力,做好联合 作战准备;准备得越充分,准备得越扎实,就越能实现和平与发展

The more, we pursue the world peace and development, the move should improve the capability of joint operations. The more we prepare for the wars, the more possibly we can realize peace and development.



