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OUND system of air-ground coordination is essential whenever elements of the Air Force and an Area Command participate rupied flow of current intelligence and other information between the two in order to achieve maximum effectiveness of air-ground operations.

Landings on Layte beginning October 19, 1944 were marked by the almost-perfect coordination of land, sea and air forces of both the United States Army and the United States Navy, with the forces working as one magnificent team. Air forces covered the operations that took General MacArthur to Manila, Batana and Corregidor.

General Dwight D. Eisenhower, supreme commander of the allied expeditionary forces, organized his armies on the European Continent by attaching to them tactical air units. In a report of invasion operations between D-day on June 6 and August 25, 1944, he said, "the air support of ground forces has been most effective throughout the campaign. The supply and maintenance services have performed miracles."

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entered Rome, he stated that the and behind which air units may at-Twelfth's "splendid air effort had tack only when the attack is cleared enabled us to show the enemy how by appropriate ground forces and the irresistible the air-ground combina- aircraft are in contact with a Taction can become."

Ground Coore in on

importance to ground forces.

an isolated phase of a battle. They Processing in the order of events must be carried out in close conjunc- involves the analysis and evaluation tion with ground operations. Their of elements of information pertinent. success cannot be judged by the num- to the mission desired. ber of planes employed or the num- Air-Ground Operation System, ber of missions sent over a front, This system includes all ground and but only by how well the overall air personnel and units participating battle plan is carried out.

This article is an informational on long of command. air-ground coordination. It is aimed at acquainting Journal readers on the . The air components of the system different phases of air-ground coor- consist of specially assigned air force dination.

# Definition Of Terms

Aerial resupply. - Supply, other the Philippine Air Force. than that initially carried into com- The Tactical Air Control Group. bat, delivered or destined to be de- The Tactical Air Control Group is livered by aircraft.

by the ground forces, beyond which tion, communications and control visual or electronic control of indi- center and has no command functions

. When General Mark Clark's army vidual air attacks is not mandatory. tical Air Control Party (TACP).

All these go to show that effec- Maximum ordinates (of artillery or tiveness of air effort is of utmost naval gunfire). - The highest altitude reached by a projectile, in rela-But tactical air operations are not tion to the surface of the earth.

in air-ground operations at all eche-

#### Air Component

units of the Tactical Air Control System and the tactical components of

the focal point of the system in an Bomb line. - A line, designated area command. It is an air-informaother than those specifically delegated. Responsible for the operation of the Tactical Air Control System and the execution of the assigned (TACP) is a team, specially organfunctions of the Tactical Air Control Group is a Combat Air Operations strikes in the vicinity of forward Officer. He represents the Com- ground elements. It is a highly manding General, PAF in each area mobile element having air-to-ground command and through him the Com- communications to sector aircraft to manding General, PAF controls all targets and point-to-point communitactical air activities of the tactical cations to the TACG, supports BCT components of the PAF.

A Tactical Mobile Control Team is of supported BCTs. assigned to the Tactical Air Control Group as the communication agency perienced-rated military pilot and is to maintain liaison with the air and familiar with the problems of tacground components of the air-ground tical air strikes against ground taroperations system. Liaison aircraft gets. He is responsible for the opeare assigned to the Tactical Air Con- ration of the Tactical Air Control trol Group to assist in visual recon- Party and the execution of all asnaissance, airborne coordination and signed functions. control, air evacuation and courier missions. The Combat Air Opera- Party, the Forward Controller pertions officer, through the Tactical Air forms the following functions: Control Group, performs the following functions:

- 1. Advises the Area Commander on matters pertaining to the employment of air tactical comnonents and recommends air support necessary to attain ground objectives.
- 2. Processes and acts on all requests for air support.
- 3. Directs Tactical Air Control Parties and Coordinators.
- 5 Provides navigational aids.
- 6. Coordinates air activities with ground activities through Military Area Headquarters.
- 7. Coordinates with air-surface rescue agencies.
- 8 Coordinates with adjacent Tactical Air Control Group.

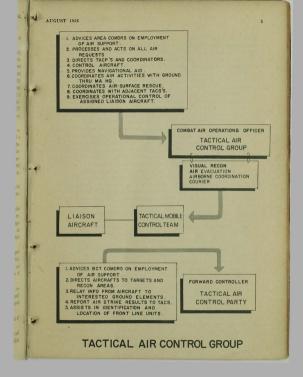
9. Exercises operational control of assigned liaison aircraft.

The Tactical Air Control Party ized to direct close air support Headquarters and forward elements

The Forward Controller is an ex-

Through the Tactical Air Control

- 1. Advises the BCT Commanders on matters pertaining to the employment of air tactical components and recommends the air support necessary to attain ground objectives.
- 2. Directs offensive air support aircraft to targets in the vicinity of friendly positions and direct visual reconnaissance of specified areas.
- 3. Receives information from reconnaissance or other aircraft for transmission to interested ground elements.
- 4. Reports the observed results of air strikes to TACG.
- 5. Assists in the identification and location of friendly frontline



LEAD LEADE

An Airborne Coordinator is an ex. includes the interdiction activities of nerienced Forward Controller who the air force in the furtherance of performs his functions from an air- a surface campaign. It is given to plane. He is utilized to provide air- ground forces by action against enemy craft control during those operation- surface objectives other than enemy al situations when air alert aircraft ground forces actually engaged in are provided and under which the the battle area or projected battle normal system of tactical aircraft area. control cannot operate efficiently.

borne Coordinator is to control and dertaken in direct support of ground coordinate close tactical air support forces to assist them in the accomstrikes. This generally includes: plishment of their immediate task in

- (when possible).
- to such targets.

#### Ground Component

tem consists of all units and head- obtaining such information on friendquarters involved in air-ground opera- ly and enemy disposition as would be tions. Ground components shall be of value in planning and executing responsible for:

- the area.
- 2. Providing ground observers to conditions. assist the Airborne Coordinator 3. Transport Air Support. - This
- support.

Air support is divided into three: casualties. namely, offensive air support, reconnaissance air support, and transport air support.

type consists of the application of ing provided the Tactical Air Conammunition by aircraft upon the trol Group. Air requests must inenemy as follows:

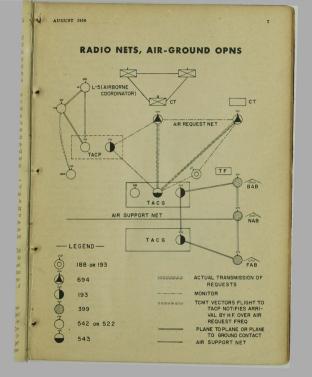
b. Close Air Support which in-The primary function of the Air- cludes those air force activities un-1. The coordination of aircraft in the battle area. Close air support attacks on targets as required, missions are closely integrated with 2. Radio report of target damaged the fire and movements of the supported ground force elements, such 3. The location of targets and the mission being ordinarily performed direction of fighter aircraft in- in targets in the immediate proximity of friendly troops.

2. Reconnaissance Air Support. -The ground components of the sys- This is provided for the purpose of operations, including information on 1. Security of specially-assigned terrain, hydrography, lines of com-Air Force units assigned with munication, installations, concentrations and movements and weather

or friendly aircraft in target is provided ground forces through the designation and identification. air lifting of personnel, equipment 3. Submitting requests for air and supplies including participation in airborne operations, and the con-The Air Support Categories. - duct of air drops and evacuation of

### GENERAL EMPLOYMENT

1. The Air Request. - The success of air mission often is dependent 1. Offensive Air Support. - This upon adequate target information beclude sufficient information to pera. General Air Support which mit determination of force, arma-



ment, and equipment requirements, tical Air Control Group, on pres-Echelons initiating requests for tac- cribed forms whenever practicable. tical air support must include in their 2. Offensive Air Support requests all pertinent information a. General Air Support. available at those echelons. Addi- These are generally planned at Area tional pertinent information is sun- Headquarters. The interdiction proplied at appropriate higher echelons, gram is prepared at Area Headquar-As much as possible, complete in- ters and includes the following types formation is submitted to the Tac- of missions:



(1) Armed Reconnaissance. -A fighter mission which and attacks all suitable safety lines designated This type of mission allows considerable freedom of action and are often highly remunerative, However, it requires careful clearance of areas designated as targets. Responsibility for clearance will remain with Area Headquarters.

- Bombing missions. These missions are carried out by fighter bombers to destroy concentrations of troops, supplies and equipment.
- Close Air Support. The following Air missions are associated with close support operations:
  - (a) Column covers missions. - These protect vehicular columns of friendly 'ground forces from enemy attacks. If enemy resistance is expected to be light, reconaircraft perform visual aerial reconnaissance to the front. rear

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enemy resistance is expected, fighter aircraft are employed to attack enemy ground forces impeding or threatening the progress of the column. These will be used only when the importance of the mission of the column warrants.

- (b) Bombing missions. -These are employed in close support operations to destroy strong points, concentrations of troops. equipment and supplies. A Tactical Air Control Party is usually located with forward troops or at any vantage point suitable for proper observation and control of fighter bombers employed. Coordinators may be used to supplement Tactical Air Control Parties as the situation requires.
- (c) Air-to-ground Strikes. — These are the backbone of close air support. Targets are generally gun positions, troop vehicles, and other equipment.
- (d) R e c o n n a i ssance. — Photo reconnaissance in close support operations includes pin-points of

predetermined points. oblique photography to obtain maximum detail, strike assessments to determine damage done or degree of recovery and camouflage detection to discover enemy forces in hiding. Visual reconnaissance includes adjustment of artillery fire, target location for the purpose of searching a given area and reporting to friendly aircraft, ground forces or the Tactical Control Group, the location of enemy forces.

(e) Harassing missions. — These include flights to deter enemy forces from attacking, flights over target areas to isolate or pin down the enemy and other flights to annoy, harass or damoralize enemy forces and other adheemist.

4. Reconnaissance Air Support. -These take the same aspects as reconnaissance missions performed in is the communication component of close and general air support one- the TACG. It is manned and equipped rations. Limited uncontrolled verti- to permit 24-hour operation of the cal and oblique photography is pos- following: sible. Limitations on aircraft and equipment do not permit the execu- Hq. TACP, BCT's supported by TACP. tion of controlled photo reconnaissance missions.

5. Transport Air Support. - This support includes the following:

- a. Airborne. airborne support utilizes cargo type aircraft to transport airborne troops and equipment to a are airlifted and dropped by air support must be provided. Generally, equipment by parachutes. These aerial resupply require the maximum in planning, coordination and timing.
- b. Air Transport. These missions are performed where the time element is critical or as the tactical situation ment and supplies are airlifted and landed at airfield nearest battle areas.
- c. Air Evacuation. These are performed in conjunction with other missions, such as cuated generally require special hospitalization facilities which must be made availtime.

## Communications

The Tactical Mobile Control Team

1 Net on HF with Task Force 2. Net on HF with PAF major bases.

3. VHF contact with aircraft.

The Tactical Air Control Party is jeep-monted to achieve high mobility and permit it to operate close to front elements of supported ground forces. It is manned and equipped to permit daylight operation of the following:

1 Net on HF with supported BCT's, TACG, and Task Force Hg.

2 VHF contact with planes.

The air request net will be used only for the following traffic employment of communications:

1. Air requests.

2. Approval of air requests by

3. Cancellation of air requests.

4. Notification by TACG to TACP of status of approved air missions.

Requests for pre-planned missions will always be sent in cryptographic form. Requests for immediate missions may be sent in clear.

- CW (A-1) or voice (A-3) will be air-request net.
- CW (A-1) or voice (A-3) will be used for transmission over the air-support net.

Voice (A-3) will be used for airto-air and air-to-ground contact.

In case two or more TACP's are able in the shortest possible operating simultaneously, TACG monitors both their frequencies conti-

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in a

nuously and issues appropriate in- whenever applicable, and transmits structions over two or more corres- other information. ponding separate frequencies. A The Forward Controller controls TACP may be used as relay in cases and directs supporting aircraft and battle areas and the TACG.

ground communication will be pre- using airborne coordinators or becompared by the Chief Signal Officer ing an airborne coordinator himself. for distribution to units concerned. Open communications must be estab-

Procedures For Employment

instructions will govern procedures vities are carried out. Upon comfor the employment of the air- pletion of the mission, the aircraft ground operations system.

Pre-planned missions. - The Com- their stations. bat Air Operations Officer will attend Immediate Missions. - These misplanning conferences at the Area sions are those for which needs can Headquarters and recommend the Air not be foreseen. These result from Operations Plans to support the ope- requests by ground units for immerations contemplated. He recommends diate help from the appearance of air support that is proper and feasi- unexpected threats ble and establishes priorities for such units of a BCT transmit the requests air support. He coordinates with re- to the BCT through normal command presentatives of other supporting channels. The BCT Hg processes the arms and notifies air units concerned request to determine if a more ecoof the air support missions required, nomical means such as mortar or Upon acknowledgment by the air artillery support is available to do units, he notifies the Area, liaison the job. If approved, the request is agencies, and TACPs. He directs transmitted direct to the TACG over TACPs in the area to move out to the air-request net in clear. TACG projected battle areas. The support either approves or disapproves the aircraft, after clearing their bases, mission. Intermediate headquarters report to the TACG for identifica- monitor the air-request channel. Sition and exchange of information, lence on the part of intermediate TACG then directs the aircraft to headquarters means approval of the the TACPs concerned.

The Forward Controller with the In cases where air alert aircraft TACP contacts the air support leader are provided. TACGs or TACPs havfor transmission of new instructions ing control of such aircraft will imor confirmation of previous instruc- mediately direct such aircraft to the tions. He designates and identifies targets and inform the BCT of the targets if necessary, indicates posi- action taken. TACG may disapprove tions of friendly troops, bomb lines the action of TACPs in this case.

where there are communication dif- gives on-the-spot strike assessment ficulties between TACP's in distant reports if possible. Whenever normal ground observation is impossible Separate SOPs governing air, he controls and directs aircraft by lished with supported ground units Standing Operating Procedures and during the period air support acticlear TACPs, TACGs and return to

request.