Interceptor

FOR THE MEN RESPONSIBLE FOR AIR DIFFINGE

Interceptor volume 9 number 11

spotlight

Never stand baseing for what you have the power to earn.

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departments

MEMO FROM THE CHIEF OF SAFETY HOT LINE

DOWN AND OUT CHECK BOINTS SAFFTY OFFICERS FIELD REPORTS

WE FOINT WITH PRIDE

special features

THE HEART OF THE MAYTER ORE WHIT SIR WHY BLAME ME

DROW OLD ALONG WITH ME "MELLO BARIS CONTROL"

HAIRY ONES



OUR COVER The interaptor that storted with the

- Coccepter

memo

from the CHIEF OF SAFETY

Our American Heritage

Discussion has been an important part of our heritage from the beginning of this country. We have read about our Paritan forebears in New

lengther who are a revenue to the control of the general score and frequency to the general score and scor

would recognize it much more really if I green it in a different former of rethrence. We me affer them with the death page I mer vering deceasions (capsenses). How about people who is at an out the equivalent page in the warder team of the equivalent page is concluded but findly, the Fridge but forward map for me ward to page is concluded but findly, the Fridge but forward page is not better than the equivalent page is the warder of the equivalent page is the warder of the equivalent page is the page is the warder of the equivalent page is the page in the page is the page is

looky discounts on thysic about, and hacking the resistant. From the augments just have their about 1650 with any one to convent in any growth about. We usually get a very first, debut on what a particular any growth about. We usually get a very first, debut on what a particular time, the steep of both type in zone particularly wessess altisation, and what they did to get one of a 1 will consciou that one operations one what they did to get one of a 1 will consciou that consequences and what they did to get one of a 1 will consciou that the consequences of the steep of the consequence of the consequence of the contraction of the consequence of the consequence of the contraction. We have generated as your galaxing of failure we will deduce. Why? Boxes generately it was quickly and the consequence of the looks. Why? Boxes generately it was quickly get the consequence of the looks. Why? Boxes generately it was quickly get the consequence of the looks. Why? Boxes generately it was quickly get the con-

proplet every low experience in the aircraft; in this same group of people of the serves who have same ybears of high stan, but who are not entity will be served who have same ybears of high stan, but who are not entity we foreign prior to as "Coll bleads." There are always some of these areast. They greeve up in a ADC environment and heap groon indeep with it. They can provide to everyone florating, information that cannot be written or the provided of the control of the prior of the provided of the server of the control of the provided of the provided of the server of the in at all possible, I use them to avoid thereshes to any or at of those manning.

longer hours than we need to, but I do feel that any time we can get people to exchange ideas in a relaxed atmosphere, one of the important byproducts will be a better understanding of each other, the aircraft, and the mission. When we have a better understanding, we have a safer operation.





-HOT LINE



HIBRIDE DOWN BALLAST BLOCK Ask any pilot who has landed an F-101 aircraft with

and dispersion. We in the maintenance business also know it is embarrossing, to say the least, when on sircraft landing year fails to extend due to "maintenance This type of incident did occur some morths ago

at an ADC base and was caused by the mechanic inunilling a balliar block "unside down" in the none over wheel well. The flight was normal until the pilot prepared to land and placed the gear handle in the down stored up. The pilot recycled the year bundle arrested times, but the nose year failed to extend. The aircraft

Investigation revealed the left nose egar wheel retaining nut had immed on a ballast block installed on been removed and installed the night before to facilitate other maintenance. This incident resulted in ADC F-101

and analysise identification markings. Each ballout block and adjacent structure is stenciled forward and top with appropriate arrows pointing up and forward for reference during installation process. These markings have proven an aid in this area.

ballast mount belt. The bolt had evidently werked out during flight Incidents of this money create a heavy workload in repair of the aircraft plus out of commission time

Maintenance personnel should be alert to the problows and harards associated with hullast blacks. Once a bullast block is removed, a red cross entry should be made on the AFTO Form 781A indicating bullaut Nock check should be accomplished to insure that adequate clearance exists between ballast blocks, attaching bolts identification markings to insure blocks are installed in they are installed correctly and torqued prior to signing of the red cross condition. EMERGENCY AND SURVIVAL EQUIRMENT

FOR OPERATIONAL AIRCRAFT Nonrated personnel and civilians required to participate in regular and frequent fliches should

proper use of emergency equipment, according to The minimum essential items of elothing and equipment should be adequate to assure survival in the event of an emergency ditching or landing. The quantity and type of equipment should be core ent with the kind of terrain, environment, number cue service. Refore takeoff, parachutes should be

fitted to each person aboard the aircraft. In addi-(2) techniques for operating the parachute and asdening aircraft, and emergency signals to be used. CREDIT CARD NOW MANDATORY

FOR REFUELING Effective 1 November 1967, with changes in AFM

67-1, unless AF Form 1239, "USAF Avisels Indenta-

The asfeels identiplate vestern is designed to assure that fuels managers obtain reports of avoked issues into USAF sireraft world-wide. These figures are then reatched with actual fiving hours to obtain dependable

fuel and oil requirements. Pilots, crew members, refueling and maintenance personnel must be aware of and comply with the requirement, i.e., "no ticket-no fuel,"

any pilets by for years wiff seer being faced with a situal which would sequire then lave the security of their coand eject. We know that w namesee is ferced to feave his craft, he will only have one ch to do everything right the first i

survival training and has refresher courses from time to time. Another way to find our what happens to senerone on ballout in get a first hand report from some-

get a first hand report from someone who has recently been in this position.

What follows is what happened to a crew of an F-101 when they had no other alternative but to bail out.

The other has retain the offer he

had made his "Mysloy" transmission and attempted several air starts be then went through the pre-species procedures with the RIO mental to the procedures with the RIO mental to the strap fastened, gold key consocial and hooked to their zero delay lanyands. They also checked lap belts and sheeded harmester lap the and sheeded harmester.

removed.

The RIO stated he started preparation for possible bailout at 20,000 feet when the pilot informed him they only had 800 pounds of feel remaining. He says the training received during the ADC LIS Support Course flashed before his mind, and he very called recheiral his examination.

The pilot leveled the aircraft at 7,000 feet, let it slew down below 200 knots, and told the RIO to eject. The RIO pailed both handles, the left slightly in advance of the right one, and the canopy immediately jetisened. He experienced moderate wind buffeting while assuraing

see you on the

rests. He says he first pulled his feet back against the seat to place them in stirrups—an act he attributes to training in unother aiscraft—but renembering the Dash One procedura. he placed his feet forward again or the footrast. The BIO food the tripure Mr.

the robot need to figger. He claims the noise of ejectics was more apparent than the boot in the said of the pasts. He says he didn't even grey-out as the seat left, but he rever saw the alrevals again. The chaff in the container on the bead-direct deploy the chaff because the larguard was not booked on the larguard was not booked to the bracket in the cockyts.

The ridn's status that after the BIO.

"Whoosh" of his seat, and the cockpit filled with vapor. His helmst bag, checklint, and various loose items floated out. He moted he had descended slightly so about 6,500 feet, and ejected himself at about 280 knots, about five or ton seconds after

ground

Jasi prior to rjection the pilot assared the proper position of band back against the handrest, back straight, and arms in the arments. He nosed what with the handles palled up his arms fit in position perfectly. As with the RIO, the pilot first palled his feet back against the seat, but then moved them ferward to the rushber pedids.

When he pulled the ejection trigger, the pilot save he felt an initial boost and then a bir boost. He says what was happening all the time. The chaff dispenser on the pilot's dealered the chaff on election. How-

GCI Center or RAPCON The RIO states that after election he had the expention of point through the air year first. He felt the

push the seat away. He reached for the D-ring, but about then the chuse opened with mild opening shock. He

cockeit, it climbed to an altitude tumble forecast He felt the cost man the Darine. The www larward had alcontrol tube on the lower left rear rinning nanch No. 4 and No. 5. The riles unaware of chute/sest involve-

torn nanels in the deployed chane He also felt the left leg of his four month old flying suit tear up the year from suff to buttock. He attributes the cloth failure to opening shock and the weight of the ADC mandatory items in his lower left rocket. He did not lose the mandatory items

He also feels the chin strap beloed retain his belinet and mask during ejection because he felt it raise up during parachute opening shock, tug at the strap, and settle buck down on his head.

The subject F-101 had been modiautomotic bailout bottles in the seat kits of both aircrews functioned properly; neither aircrew experienced any difficulty with oxygen/comat the alouness of his descent. He looked down through send clouds and could see nothing but forest below. The wind was calm, and since he was not oscillating or drifting and no clear landing area was estdent to steer toward, he chose not to make the four-line cut. The oiles, even though two panels

As the aircross descended they

could not each other and waved

The RIO way be was quite comfort-

able floating down and was corprised

lines with the book blade. He then no success. Due to cales six he ex-

erly, and the life rafts inflated Both the pilot and RIO recessed for a tree landing by retaining their Both men buried their faces in their arms and kent their less tishs

together as they passed through the low clouds into the trees. Both crew members rorachated into a dense hardwood forest about one-half mile from each other. The RIO came down within 100 feet of his ejection seat. But the pilot, though

respectively, due south of the crash

scene.

he had ejected on a vector of 060 from the RIO, drifted due west a guarter of a mile from his election seat and ended up almost directly north of the RIO. They were both two and one-half and three miles. three feet in diameter, about 60 feet from the ground, with no safe way to get down. The shroud lines of his chate and the langued to the survival kit were inaccessible. He reided himself that he had not romicked during ejection nor after the landing in the tree. He was content that it wasn't yet noon, and that it wouldn't get dark until 2100 hours. He knew

rescue was just a matter of time and

noted that his chute was in a cood

position in the top of the tree to be

onto the limb unbuckled his close and took off his belinet, which he left behind. He then elimbed down the tree to heavier limbs, recounsed.

and smoked a citarene. At this time the RIO noticed blood dringing down the front of his flying suit. On landing, a broach had torn an inchwide. V-shaped rush in his chin. He wasn't portionlarly concerned about the out be-

Both men landed in high too

nearly 100 feet tall. The RIO and

nilet both were supposed in space

between the survival kit and the ror-

arbute which were caused in the high

The RIO morecord to reach a

large limb close at hand. He climbed

cause it didn't burt much Ho checked himself over and found no

other injuries The RIO decided to climb down to some large lower branches of the tree where he could be more comfortable. He surveyed the itema his SRU-21/P survival yest and travout his pen, our flares. After a period of about a half hour, he heard a jet aircraft and fired two or three flores

He later decided firing the flages had been a waste, because they weren't seen and decided to wait for a more opportune time. The RIO studied his position. He was in the crotch of a tree about

visible from the air. He recalled a survival movie dealing with manchute tree landings that caution INTERCEPTOR

less trunk to the ground. Meanwhile, the pilot, too, was bung up in the trees. His survival kir. and raft were caucht in one tree, his parachute in another, and he was suspended at a 60 degree angle in

between, about 25 feet from the round. He undid his oxygen mask and nelled on the risers and the survival kit lanyard to see how firm-Is they were snagged in the trees. He decided to release the survival kit from the ring on the parachute har-

to aircrew to be careful setting

down from the tree. He decided to

stay put for the present, and if he

got uncomfortable later, he might

try slipping 60 feet down the limb.

ness, but found that he could not with the weight of his body being supported by the survival kit lanvand. He tried to cut the adjustment strap on the right side of the survival kit with the book blade of the MC-1 survival knife. The book blade Doke. He then rulled the book blade roud line cutter from the pocket on the right front riser of his para-

chute and used it to cut the stran-He then swung to the ground without injury because the tree and narachute supported him and broke the The RIO was not quite so fortunate. He decided to try to slide 60 feet down the trunk of the tree. The tree bark was damp and rubbery. He

wrapped his arms around the trunk and tried to ease on down, but couldn't hold on tight enough and slid and fell to the ground. He hit on his right foot, fell to the left, and bushed the left side of his face against a rock or tree root. He did not lose consciousness and after a few minutes, he got up and found only obvious injuries on the left side

of his face and previously injured chin. He removed the individual survival kits from his SRU-21/P yest, took out a couple of gauge apresses and placed them over

individual survival kir. The ridet was able to remove his chute from the tree, but he couldn't get any of the items from his survival kit. He laid the chute on the ground and surveyed all his survival equipment, which included the five

these roots. It woun't until a much

later that it was discovered that the

fall had carred a dight components

fracture on the right side of the third

survival kit or belower He left there

un in the tree He did have the

contents of his SRIL-21/P year hore-

ever, which included the five mon-

datory items, plus the two packet

The RIO did not setain his chuse

lumbar vertebra in his back

mandatory items in the pocket of his torn flight suit, the SRU-16/P minimum survival kit in the back of the parachute and booklet "Survival Uses of the Parachute," the SDU-5/G strobe light, and the URT-21 radio beacon. The pilot's URT-21 radio beacon actuated automatically during chute

deployment and was beard by tower and RAPCON. After reaching the ground, the pilot removed the URT-21 beacon from the parachute packet. He disconnected the flexible attenna and rulled out the telescope attenna. A few minutes later he inadvertently beat the extended metal attenno, and when he tried to straighten it out, it broke off, right at the base. He then rulled the flexible riser antenna off the parachuse

harness, hooked it up, and placed the radio up in a tree. Later the T-33 search aircraft was able to nick up the warbline tone of the radio beacon at a range of two miles. while flying at 2,500 feet.

The forest was very dense where the pilot landed, so be reconnectered 100 yards or so in several directions uttil he found a small clear area. He spread out his chure in the clearing. laid out his signal equipment, and started a smudge fire with herelock party to reach the crew members.

A T-33 passed over a course of The eilot reasoned that if he walked out, his torn orange flying suit would hook on the brush, so he repaired it with a needle from the minimum survival kit and inner narachuse shroud line cord, while About this time an Army National

boughs and namer from his nowker

rimes but then departed.

Guard O1A flew by. He spected the smoke from the fire, the pen-run flares, and the pilot's grange flying suit. To make himself more visible. the pilot waved one bladder of his LPU-1/P, which he had inflated. He also attempted to use the signal mirtor, even though the sky was overcast. The signals were acknowledged About this same time, the RIO noted more aircraft activity. He snotted a civilian helicopter up through the trees, but it didn't stay long. He then saw a T-33 and the OIA. He

seen by both aircraft. Both aircraft also saw his orange chute in the top of the tree. He himself could not be seen, because his green flying suit The RIO had no doubt that he had been located, so he sat down and awaited rescue. He wanted a drink of water and recalled a creek he had seen while descending in his chute. He had no idea which way to travel to reach the creek, so he did not move. While he waited he felt a headache, so he took APCs out of his two-port individual survival packet, and chowed them for relief.

fired a pen-gen flare, which was

Then, he sat there in an open spor and watched the aircraft orbiting The T-33 and two 01As remained with the downed crew members for an hour and forty five minutes. They

passed information back to the base which helped aid the ground search the heart of the matter

and do not concern us here. There is an electronic conduction system that specials the contraction signals from dles. However, the key to our story The heart receives its own newsishment and cayeen surely by two

fever which is primarily a childhoo

small arteries, called coronary ac-(the main large artery leading out of the left side of the heart). These heart, these branches don't anasto-

recovery by scarring, or there may he andden death due to the decalorment of abnormal rhythms in the conductor system.)

is a disease of unknown cause that results in thickening of the walls of a swech earlier age than in women; it occurs with much greater fresmoker. It can be the cause of an

tery discuse unless there has be

manned aircraft system and there

A flieby of F-102s is making a fly-

right. The pilot makes no attempt

The heart is a two-sided name It weighs about 2/3 of a pound and makes about 38,000,000 strokes a lungs for exchange of oxygen and

marily congenital (occurring at the

budraslic system on his aircraft.

fusing and often applies difficult

What about the electrocardiogram (FCG FKG)? This volumble tool was invested around the turn of the century. It measures the electrical nath of squizzley lines on noner. If there is douth of heart resuche (infunction) either recent or old it will cantiologist. There have been noneach thines as severe viral discusses tern, which adds to the confusion. do it sell as the degree of americarelevants of the community arteries. The only test that will do this is "coronary anoiography" which is a complex and slightly dangerous nonroutine procedure. These arteries,

can be plagged to a remarkable derece without any symptoms or deportance defects in the ERG. It or only when there has been damage to the heart muscle that the ERG will show evidence of coronary heart disease. The reserve of the cocorary arthry yoken is remarkable and it is hard to visualize a paragin an airccut that could have in fuel or labrication supply so restrained and yet closely on the statistical and yet closely on the proserved of the properties of the proserved of the pro-

periodic inspection on the heart.
What about preventive maintenance? While the most important item

is selecting our grandpareams for their longweyly, there are effective things that can be done. Probably first in priority is to stay lean (even minimal obesity counts against you) and in top physical shape. The interrelation of diet and exercise to a lowered incidence of coronary discase is not clear cut, but there is a streng statistical correlation. A high instable of arming life produces also is coronary artery disease. Physis thirty, in my opinion, is the mis fecultie preventive measure. R and constituent physical exercish point of stressing the system result in a marked lowering incidence of coronary artery diffusion to the missing the system of the property of the property

There is visioner that the energy of the political of the control of the control

Hence, what can we do for our preventive meintenance? Stay lend? Stay physically active (you can't beat running)! Lay off the cigarettes! This should be a consistent and life-long program for a long life. This is not just to insure the Air Force's investment in you and to keep you from clobbering a shing new bird due to a sudden connary new bird due to a sudden connary.

smoker will have.

occlusion, but for your own enjoyment and active longevity. An item of interest in the history of our young fighter pilot mentioned at the beginning of this article, is that in the three years preceding his dough he had become more sedentary and had

gand 30 possible, blance is not one of opposition, but it distinstly after in the teerifice. While many derivative in the teerifice. While many desired a few teerifices are present to the strength of the st

ABOUT THE AUTHOR

In Calmed F. Werner Levell, APRey, MC, the place physics currently a reservoir, on Bi-Day engines to the Surpoir's Office, ADC, to both a varied from the Surpoir's Office, ADC, to both a varied place and a differ surpoire. We arrested military service unit the Nameura Clausel In: 1980. Me. Colonel Levell Territorial Filippe and the Surpoire Clausel Levell Sci. Spirit and the Surpoire Add Filippe Sci. Medical Sci. Spirit and the Surpoire Add Filippe Sci. Medical Sci. Spirit and Spiri

the plot physicians in the Air fance; he was Chief of Aircapace Pothology at the Armed fonces institute of Pathology.

Colonel Lovell returned to civilian life in



whiz, Sir."





Gentlemen, behold our new IMI







He lise in a world of progress. All arrend as we see reichere of what man is capable of doing. Baldings are designed with an eye toward fuscilienal use. Hences today have appliances in them which make the did wood cocknows an item seen only in a masseria. Astronomies when the seed of the control of the Aircraft liver pose from the wood and bulling view place to the jet engice and itanking phase. Yes, progress in a weedsortd thing.

ducing the number of aircraft accidense within the Air Force. We have identified and diminated many accident cause factors in the past. The aircraft today is much more orthood than it was years app. We would like as compane two accidents and purhaps we can see how much we have progressed in

ACCIDENT NO. 1: Estract frees Proceedings of Board of Officers held at San Antonic, Texas, May 10, 1911:

MI Board, Lieut. Kelly made a of approximately five minutes up, tion, in a Curriss bi-plane, at vy 7 A.M., May 10, 1911, under ay atmospheric conditions. As a ke of this flight he met his death.

of this flight he mee his death. He had made not a normally hard landing. Upon landing at least one and possibly both sides of seat fork were broken at a point between pilot seat and front root. At the same time is appears that one disponsal hamboo brace from front wheel to front elsvoter was booken, and its made was

After striking the ground the first time, the machine bounded to a beight approximately ten feet, and gradually rising to abose thirty feet until, within about several-free yards of the camp of the Eleventh Islanty, it much a sharp term to the left, banked up the terring wing, and much an about a to the ground. Kelly was thrown clear of the raise to a distance of about twenty

chine to a distance of about twent feet.

As a result of the first imput with the earth it is apparent that the pilet lost control of the machine.

the Board that the freet wheel rehave struck an abrupt depression

From all of the pecceding facts the Board in of the canazimuse optimises the Board in of the canazimuse optimises the Board in of the canazimuse optimises the Board in of the canazimuse of the canazimuse of the canazimus of the

ticable owing to the proximity of the tents.

Probable Cause of Accident: Ereer in judgment on part of pilot in selecting an annual pilot in tipes.

ACCIDENT NO. 2, 1967

Takeoff and climb were normal in all respects. Cell No. 2 quantity was monitored during the climb. A level off individual tanks we

NTERCEPTOR

NOVEMBER 1967

in all types of weather. savandrama to sadés or surrau trus ror turn os arad sun silupum Armon meand once the present SEASONS AND WAY HE SHALLOW THE PATRICIAL GREEKS WAS MADE ALIES sun few wed ass pur andago appr n Sin renous aw adequad "sunf to and fluryours our any send our ourse drops in some proportion, when we DAY HE REMARKS OF THE SECURIOR

reasoned too one most our mount when someone has an the tacks, but away or fore to nomine purery V

become us not true bases: WE SEE THE THOO TOO 1800 DIEGO STREET TO ILLUM ROUGHSTREET TO y furnost do pue usun se percedue u rrun gol our op our ordood sosso Summ on their to apprent a sec. 360 mons to tot a tuo tud of aguons and

-andust you we op of over his years 110 Sussed to compination our sastasing tirst ring Job. All too otten we allow e on or passibas riotis out the tud Vitton 1 fibe but dot, but dadn't source drings of them. Maybe they did tip--as sew test dol adt ob Fabib seo

-анов штальшкор хээд элэцхэнээ If this happens, then perhaps to dress obcooled by stars on Acts her people intentionally go out biopopi), ergs a quincum abbioaca ronou four surfly is on or assured

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bressile of time, Even mough we out term resulford on used you aroun

sapadsar auros ur p se sapor il cost or the one he really wanted.

search man, agreeme our parandan aonal tion observe and both he and the the canopy was journoused by the mmedundy and aerodynamic brakwith with the deag chain depoyed una our so mus useoudde our most unon 1221 nee sen unopursol realist at you see so see introduction uran apenu moresmusurui fur sen aou ments in son sew meaning on again te 'ours of meeting to take aisames 'come the his best appear

SEA THE WHIT CONTINUE ON SHE SHE essed modar of therapite and bossessive or rance rioday telesions seri ONE TE DO HER OF PALISSED STA Control and the best tank quisconed nearly, the pear and the presence ee test 000'01 uffnosts Sursed 'Sur -bead sarged O'll oil no ago ballor meaning out as beaut glooms bowns caste proporty. A runway was on--do ce pareodér represent su resu descent was began, in the turn the these turns were excessed, a steep strictur in vector to the runway. As

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mus still in a left tarns, a right tiern WHEN CHEST OF CONTINUES WHITE, AND ness rations amoneton and on state and took of flight. Cernor handed conbend to assupen a riber valued from one or regarded on partitions for urely sure user sur and consolise street estignation remaind out a page THAT I THE WALL THE CAN LOND HOT MAN GETT ON THE ON HIM INCHES COURT IN SHIPM SOORTS SECURIOR SECURIOR STREET no namas on som nuton asso furnism PROTEST AND OF BOILDS MALANT SID HEREBORG, USE CASCI PRINCERSON HORSE Suassessors Suprando sem ucerand SHOW OUT TROUBER IN SECUROUSE

RO-SCOT INOST DAE BOUSHULLIN TOLES tatic, boin from the neading that--12 SES HIRBERT NACHAL SELL TREESE TO CERRIE. mon passed on peron untruso bested pecessary, and true inor barrando saw theratic off. baron -NUMBER OFF TOTALISM SPRINGER CORRESPONDE DATE TOTAL OF THE PARTY AND ASSESSMENT.

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CONTRACTOR OF THE PROPERTY AND THE PROPERTY OF the quantity selector was placed in THURSDON OF HOUSE WHEN DELINE placed in GRAVITY and the exat beed out. The fuscisgs swatch was



PERATIONAL EADINESS INSPECTION TEA IQ, ADC

"Mistakes" — Again!

A review of post ORIs indicates discrepancies that have extend for a long time, Score things mentioned in this article scene to be repetibles, but it seems everyone needs to be remitted of these leaves once again. Some may appear to be inconsequential but may make the difference between a solid performance or one that is just tooo. After much discussive, we have come up with a few discrepancies that are generally observed.

We are convergence/side but discrepancies or convent libert in

just 30-00. Aller mode discussion, we have come up with a few discussions that are generally observed. We are oversupervision by disc personnel. Don't let the topic miscles (over, we do not advocate that person nel be left on their own with an supervision at all. However, we have nested that many phose calls from the buffer staff. SO, and SWD concerned actions that had allowably been taken by weapons personed. This inferenation is usually displayed on the SID or DID. So basels managare, DOP'T ADOL DOW THE BLUE ROOM.

poter Director afternation Display afternation Display afternation Display Nirector Nirector arcept Countriessure eccomplished most Line

CALLS! Why not wait a few seconds to see if the action has already been taken? Fallars to monitor final phase of intercepts by WDs: Information is being requested from INDs that is

interesps. We do not suggest that the WD lines of Missing follow the entire interesps on every constituents. Obviously, follow the entire interesps on every constituents. Obviously, this would be impossible and consist in accord, it would certainly distorted for foot the rest of his responsibilities. We do think that WDs can and should manner the final phases of som intercepts being constitute. Effective use of WD consides would certainly give a confirmation of kills or Mis. Certainly in the case of an MI. In their consult action could be accommissional people future.

Poer disserniantion of intelligence information leaves INDs in doubt as to the overall battle plan. In order to maint the WDs in positioning intercepts, INDs must be kept aware of the threat, ECM activity, and evasive action.

must be kept aware of the threat, ECM activity, and evasive action.

On two ORIs we have witnessed as IND taking a second MA/Kill action rather than making a second pass. In both cases, this misled people into believing the fakers had been recombined.

tites. Needless to say, where percentages are all important, these were very could mistakes.

Academie training programs have continued to look good and results of written examinations have reflected their effectivenes. However, mannerous positional mistakes indicate that reactional toxining oils mesh some

emphasis. There are too many INDs that do not have



complete knowledge of armoment or aircraft characteristics and basic computer logic. This is evidenced by the tactics employed and unnecessary use of manual command headings that eventually led to unacceptable crossing angles. Lack of voice transmissions concerning ECM and faker evasive maneuvers indicate INDs are not cognizant that this information is valuable to the sirversy. INDs one will lay in unduting computer in-

formation (i.e., fuel status, armament and peoper command altitudes). Improper breaksway heading meet incoming fakers. This was either caused by poor preplanning or lack of understanding by INDs. A little preclaming or face of discretizating by 1-454. A since will result in more and earlier kills.

In the surveillance area we continue to observe numerous MIs charged to height. If employed properly, since positioning of height finders is based on symbolney location. Proper coordination between the wron-Slow reclassification of tracks after neutralization caused some unnecessary actions to be taken by

weapons and surveillance personnel. Why wair! A "R" track indicates to everyone that this is no longer a valid

Possibly the most often observed problem is the lack of external and internal coordination. There are cases of Modes I and III units not talking to one another when BUIC is in the monitor mode. Mode III must have the interceptor call signs, fuel, armament,

and commitment actions to be prepared to assume control of the air buttle. We have noted a vast improvement in this area during the post months. Various ground environment sections appear relearner to talk to one another. If weapons personnel notice surveillance problems, why not coordinate. To correct them - let's face it - the most experienced wearons team in the business can't back it without a

Even though units are short of experienced personnel, those problems are still not insurmountable With proper training, supervision, and coordination

reliable sir picture.

TOM WILLE, Colonel, USAF ADC ORI Team Centain



"Grow old along with me! The best is yet to be. The last of life, for which the first was made."

Nestly I took what I am sare was my last flight as a pilot of a militury aircraft. I was a amerier of an outif which was climinated in the oftense expenditure exthout, and I have ranked and agad arpelf set of that hasma if I did not at this time. On the other control of the contro

killed esc.

I felt a resurgence of the impulse to betreehole the boys and girls just beginning, whether in private or military flying, and say the magic words which will keep their bones intext and send them home each notes to

evening a psy to spouse and construl can say what I have to say without pride or arregance because I was a medione pilot. I learned alowly: I was not by any stretch of the imagisation. a "natural". My awareness of my limitations; I am ware, is one important factor to which I own my Iffe. I did not have the Add to twe

If c. I did not have the skill in with chance and stortch my or manship beyond its capabiliti would not slow-coil as less than because I secoped out at least the time; nor would I practice unties I had so much advade the ground seemed as remote a moon.

There are two kinds of pilots

get hart clever ones and poec ones. The clever ones gradually acquire a confidence which may mislead them and fength them to cross the safety margin once too often. The poer ones are received incapable. But there is one common graduates which bath

types possess—they lack imagination. Their thinking is narrow. They fall to consider the possible comequences of a breach of flight discipline or an overextension of their addition.

They assume that all conditions at all times will be normal. They assume that the ground is flat with-cert obstractions, that the old altimates of the state of t

These are feethardy assumptions executing from latiness and wishful thinking. If there is one thing we me can be sure of in this journey through the cosmos on this thince change is containt, nothing is contained the same. It is opposite the same. It is opposite to the same.

INTERCEPTOR

along with me

the human race is invincible. You need only to consider the fact that a mon who knows he has only one life will offer it as esceniv became to take an extra minute to ask a

I distilled a single rule from the contains just about all there is to obrase unless we extend it through every flight activity. It is simply,

without adding to the list. We must

Anse that the liquid in the tank is nisting my that the length of the narrow is 8000 as Ferroste-Surele-

on properly trained authorities for us we cannot help it.

the nearness with which I came to killing, not moved but another pilot.

I was listed up on the runway's contriline with a student under the plane was lined up in front for the some purpose. My student was on when I gave the order. While I could

started down the names. After a "Now look, buttonhead," he said

for granted." I normed the hood, took over, his

dest was verring off heading. I ory very uncomfortable to live with. I own to a certain vice of mine a

sand dollars of NSLI insurance. I om an experience thief: I steal the



plane is the rodic nature when the torser informs me it is there. I manic. kinger? The cold sweat breaks out.

for the rin cond bundle. No more baseball with my boys? The heart Where in the hell is that other

I nam richt and left to seek it. I Tower: "Nine zero four, are you hooing difficulty? Oh no, how can the thought of a

mid-air collision at a thousand feet surgest difficulty? I make my voice calm. Nobody mid-air collision. After all, am I not

"Tower from 904. I do not see the number-one plane. What is his Tower: "He is ever the end of the

"And how did it go today?" Cynthink it is chilly enough to light the

I know two pilots whose tracic other was a wise gay.

> and limmy Doolittle rolled into one. But he couldn't subtract. He didn't reduced to a dangerous minimum. He could roll at 200 feet and

never scoop out. His aircraft was as his own bady. This is a fine thing. but there are possibilities over which failure is one of these, and entire failure when inverted at two hundred feet is a totablesome event. A parachate is uncless and your choice if you correlate your roll. Casey did

feet of rigening corn.

didn't bele him. He his been loor monelishs. And yet his craftsmanship far exceeded mine.

Maryell said it 300 years ago: "The grave's a fine and private place But pure I think the there embrace."

never had the courses to attempt

But I love to stant. You should see my triple sequence: The split-S. loop, and Immelman, coming right it at 10,000 feet. I'm very proud of

The other pilot I shall call Grant. lacked humility. He wore his cap on name to a landing. He would array acrodynamics with pilets who had had altogether. Can you imagine yourself advising Saint Ex on the best route to Dakar? Grare would have done it.

One day I said to him, after a

I win the argument, but if you fly like was talk, you will kill yourself."

whistline, "Off we on to-to-to-turn-I had no car, and he picked me up

after my metancholy prediction, he failed to show and I had to hitch-

very tight schedule. I started blabbing when it was apparent that the

"That down Gront didn't nick me o this mornine! It ain't my fault?"

phone and being arrapite like "Grant was killed vesterday."

poker same when the card you draw is exactly what you expected. Of course. I said to myself, what else He had his brother, a visiting cadet, in the rear seat when he redled

the wines off the trainer over Biscome Bay. The only two boys in the think. I wondered. And what did his further say? It is the same as in driving a car.

of course. In sonight's paper is a picture of a new car and a boy shuttered against a tree on a sharp turn.

My wife is a castious driver: too ous, I tell her. She misses colden opportunities to pass other vehicles while I fret and fume. You

But who skidded off the road one evenine and moved up our family

I said that Cases didn't know how for safety. According to my ingenious reckoning, safe flight is main-

When you have trouble in an airplane, there are at best a fairly large

highway, where an encoming car on your side of the road, passing on a fers against chance, fate, bad weather, or even your own fallible

judgment When the hungar-flying drifts that your narrative is too dull to relate. Let nothing happen to you

cisement empathetically by observ-Stewart and John Wayne on the

threatened to arrest you when you

laughter-allygend wines, to winging norm. There are no tell reads un there in the blue, no billboards on lister. There is only the challenge to

I must finish now. The ashes are has the coffee on and I have much. mollows to toost





received many glowing and hearsumming exports on those well can ADC types are doing in all phases of the conditiv in SEA. Just one of those phases it and defense of the area. Recease so many of ADC's people are public pairs share of DC's people are public pairs share of the to Standmast Asia, we saled for, and received, from the Seconds. Air Force a jet search of endphasemasts on the

An unidentified aircraft streaks is ward. South Viennan. Almo simultaneously, a red light litaki on in a large darkened coon at speanting air base in the Republi and used-faced men set into mocke a vast air deet system. tions of Vertune's Paris, which is until the Provide cybric city, centre of fashion, sidewalk cafes and exterer to the intermediand "fest set." The Vertune Paris—the "Paris" Control and Reporting Control at Tas Son Nast Air Base — has note of the glamour of the Intenses city and cuters to a ciliferent "fest set." Albed tastical abstracts companies operations throughout Virtunes. As the sadderstill advanced continues on its very to South Virtunes.

with alert crews on standby. The

equipment, and materials in the Saigon area. Within minutes, a flight of two

Aut Fooce 1-102s from searty Bean How Air Rise speed stream the unknown sizeast. Still others, members of the Air Fooce of 5th Tactical Control Squadoon and Victamens Air Fooce personnel working sideby-side, hundle complex radar copes and commonistation good in another phase of Paris' vital mission. Control personnel provide radar advisory and flight-fellowing services for all significances for all and flight-fellowing services for all

aircraft operating within the III Corps area, justing out in all directions from Suigon.

As weapons controllers pass on vital information and guide aircraft in the area, name eyes are fixed as

INTERCEPTO

The intercent already are below suided to the unidentified aircraft. the F-102 flight and the Paris Cen-

350 deerges, climb gate angels two But flight you are committed

"Roser, Paris."

"Red flight your target is bearing 100 dormer at 20 miles and in a

The lead pilot replies: "Paris, I "Red flight, your contact is your target."

"Roser Peris."

lead pilot say: "Paris, I have a visusl. The bogey is a civilian DC-6 "Roger Red," comes the reply the unknown as a friendly aircraft.

elace ... was done Vietnam. ... former to muck the truck on friendly

and the removehers at the center

to be scrambled . . . some unidenti-

Similar scenes take place at other

pisson-frien sizent - months Among the enidance provided is tarical evacuation flights.

landing assistance at these bases. Control centers are able to maintain constant contact with aircraft bility from one oceaer to another

Allied offensive and defensive airtweical of the French carital . . .







Many of you will be driving on ice

varied reactions of your car, and how

OVERBRAKE: Use your brakes maringly on ice and assume ample clear-

These three factors - everpower

tice a skid, or drift develops. Release vehicle is drifting. Practice this at a year winter driving ability. You will crosse from to 12 times) in stopping dis-"feel" for the effects. Knowing the

and your shilling to analyze and con-











)()W) and

BUIL SHUTOFF VALVE (E-104)

The flight leader of the two ship formation briefed the flight. Call signs were assigned. A nermal preflight was accomplished, and as a part of the preflight I checked the theorific linkage, reds, and consentions in the left negrine bay. All was

in order.
Engines were started, systems checked, and the flight taxied out for takeoff on Runway 09. Lead rolled at approximately 0921, and after 20 seconds 1 followed. Takeoff and disabout new coordinately disabout all newtons.

Center for the flight to the intercept

Typinot up in core ferminate 35,000 feet, and as the flight leader's IFF was inoperative, I switched my IFF on so that the flight could be identified. Arriving in the intercept ares, we were descended and were turned over to SAGE for coetrol.

SAGE took control and designate.

thread over to SAGE for control.

SAGE 5004, concell and designated in a sink first "surger." I was stables strates, offer four the sight harge up at a higher RPS was 250 Losso. During this period of time, I nesided over yielght againgt a losses of the flight was joined without each of the control of the proper surgers, with the ECT florusoing 4 to 00 degrees occusionally. The RPM of the proper at 34'4" and, as the all of the proper size of 34'4" and, as the all of the proper size of 34'4" and, as the all of the proper size of 34'4" and, as the all of the proper size of 34'4" and, as the all of the proper size of 34'4" and as the

After about twenty minutes lead as broken off, and I was designated

as the "interceptor." Data Link commands followed and I switched the Flight Mode Switch to Audo. Power was advanced to full military power, and the aircraft climbed smoothly to 12,600 feet, as it automatically fellowed changes in Data Link Comlowed changes in Data Link Com-

Leveling off as 12,000 feet, 15 found that 1 could not result the theorite below 94%. I declared not emproyed and set my IFF to "EMIRE" and Mode 3, code 77. SAOII give not "Pipcoms" to home plate. I determined that throube reportee was available above 94%, available setting, for four that it might have yet at a higher RPM. My leader required of a joiney, and the light was picted without delay.

sireraft to climb to 22,000 feet, where I leveled off at about .9 Mach. I discussed the problem with lead and decided the best coarse of action would be to shore a straight-in apposach, catting the fael awinches ence the landing was assured. When a BAK-6 barrier available, I felt fairly confident with this plan. My leader said, "like sare to nam both

the exisches off."

I advised SAGE that we would begin our document about 60 miles went of home plane, and nequested that Approach Control be prepared to handle us for a straight-in so-preach. I also requested that Mobile Control be prepared to assist me.

descent commenced from 22,000 feet. I made a determined attempt to retard the thootie, but could not free it. I looked down into the throttle quadrant for any feetign object, which the meant but I could be a feeting to be



Contact was established with RAPCON on Channel 19, I made one attented to contact them on Guard, but neither aircraft could reorive properly, so the flight were

back to Channel 19, where communications were good. I called off my power setting and fuel flow to Mobile Control, and asked him to check the Tech Order to determine how long the engine

should run after cutting the fuel switches. He replied, "About 5 sec-

ends, don't turn off the fuel switches. About 30 miles west. I raised the nue and decreased airport below 280 knots. I then lessend the oner

and continued my degree to 2500 feet. After leveling off, the airspeed Ned down to about 220 knees. We intercepted the elide path.

and with gear and speed brakes exnd held between 225 and 230

einning of the runway. I made one last attement to free the throttle. This falling. I immediately turned off the left and right fuel switches.

I flew the aircraft on down toward the runway, expecting the flameout imminently. Once past the book, and lead said. "Your book is down," I rechecked the two feel existes off, and noticed that the

yellow warning lights were on. I set the aircraft down on the runway, and looked my shoulder harness. I used no brakes for fear of the chure at that airpreed, begins

that I wight be able to use it after the flampout occurred, and the air-

and called that the entire would not quit, and gave my airspeed. I felt no deceleration as I rolled over the BAK-6 and my leader called, "You didn't not lit!" from his nishoons

Immediately I saw the MA-IA not immediately once if I had so gaged it successfully. The aircraft corringed to roll and I felt no further deceleration. The roll became more burgey and I could use that I was about to go into an unprepared

I redled back on the stick and was heartened by the aircraft's exsponse, although the controls felt

somewhat slopey. Unsure of how reach damage had

already been sustained, and in a climbing attinude with the imminence of a flameout. I realized that I had a good chance to survive if I eierand I raised the left handerin and the system functioned as de-

The reason that the engine would



POINTS

This section of the magazine has been designed for you. Be you a headquenters type at any level, a commander, safety efficer, gilst - interceptor, transport, light alreati - reducing officer, producing officer, restanting and section of the secti

This is your corner.

We selicit your ideas, incess, nates, photographs, sketches, and pictures. The writing should be less than a paragraph - preferably a sontence or reco.

We would incessly nameatic your least mailed disords to The Editor. INTERCEPTOR. But

46, Est AFB, Colorado 80912.

Carbon macolida, a colorless, codores gas is alles, respectad during the winter months when we large our care vindows closed to leap out it cold. You have bested the best way to handle the problem to be the color of the color of the bested the best way to handle the problem for the color of the color of the color of the bested the best way to handle the problem for the problem of the color of the fact. By handle windows partially garden to be seen that the fact. By handle of the color of the fact. By handle of the seed to the color of the seed to the seed to the windows the seed to the seed to the seed to seed the seed to seed seed to seed seed

The allowable tolerance for altimeters in Canadian aircraft is ± 50 feet as opposed to USAF allowable tolerance of ± 75 feet. (409 AW(F) Sqd, CFB, Comox. BCI)

Writer borns ted to follow carell climatological treats as they rowe access the U.S. and Careda. In the cest there are two main teach, one orderisative and the contract of the contract other from Cape Hattera northeastward of the New Displace docust to Newfords lead. Most stems which develop or to climate the contract lead. Most stems which develop or to the contract of the contract lead. Most stems which develop or to climate Velopina, Sensus areas most through the Great Laise region and St. Lawrettz Velopina, Sensus areas most through the Great Laise region and St. Lawrettz Velopina, Sensus stems which stackless part of the Appalachies to the Hatterae area or on pith east caused. Others more northead on the west to service. Velopina, Mary of the west not areas. Velopin, Mary of the west not areas. Velopin, Mary of the west not areas. Velopina and the sensus Assistance of the contract Asistance and the contract Asistance and the contract Asistance and the contract Asistance and the contract properties of the contract and the contract properties. The contract properties of the contract properties of

INTERCEPTO

See temperatures off both coasts of North America decreace considerably as winter progresses, and reach their coldiset values in late winter. Fifty degree water fampratives are as far south as Nathucket in November, and Hatters in January. February, and March. On the Pacific Ide, water temperatures are colder than 50 degrees in the Gulf of Asiasi an Navember. of the Washington coast by Decemter. American Company of the Control of the Control for the Washington coast by December 2019.

Recent experience gained from RF-100 operation indicates that should be opporation; indicates that should be opposed to the primary and until by hydraulic system, as immediate pitchips will be encountered. Pitchips will be encountered. Pitchips will be account at any indicated aimpead and allified as soon as pressure in the primary tool of the primary of the prima

It is safer to be thrown clear of a vehicle in an accident. One study of 139 fatal accidents showed ejection from the vehicle to be the biggest cause of death. Bighty percent of these deaths could have been prevented had seat belts been utilized. (ADCSA)

If you're trying to survive until help comes, don't shrow away that cigarethe lighter just because it's out of Black. It's still an excellent fire starter. Just pull a little of the cotton out of the inside, fluff it up, then spin the wheel of your lighter backwards, throwing the sparts into the cotton.

The cooling power of wind and temperature has a tremendous effect on human comfort in winter. For example, a 10°F temperature with a 20 knot wind is equivalant to -25° with no wind. (4 WW)

Agen Club pilots charging off on crosscountry flights may have trouble getting proper octane fuel if they fall to plan their stops to be compatible with type of aircraft/fuel available. Proper fuel is recesnecessary checks such as water/contamination must be made before feeding the bird. Light aircraft usually require 80 octane has and some vendors may register surprise when it is mentioned unless all stops are preplanned. Flying Safety Of-Financian rander the April Club members a service by insuring that the Aero Club Operation Directory in the July 1947 issue of Assessance Safatu is quallable for their use. (AFSC)

Couple Up For Safety . . . Interceptor Aircrews should make coupled affects and coupled US approaches on a frequent and regular basis if they are to expose the malfunctions that exist in their automatic flight control systems. It's too late when a demanding situation arises and it doesn't perform as advertised. [ADCSA]

Dispersal Operating Base Detachment Commanders should check ADC Supplament 1 to AFR 60-13 before the snow season arrives for into or runway surface conditions (RSC) and runway condition

reading (RCR). (ADOOP)

Did you know that glasses will be worn while performing those aircrew duties requiring the corrected visual aculty?

safety officers'

FIELD REPORTS

RUDGE TRUE, F.O.D. After approximately reastly relies of the Fin. On conditionin insurement (ball) was deflected but right, and conditionin insurement (ball) was deflected but right, and approximate and acceptance was relied to the conditionin insurement (ball) was deflected to red off with no effect. When right routes this new subsequent conditions and relief to the condition was selected, when right routes the south was provided and ricidion to action the south was provided and ricidion the southern was provided and tradightic approach was flown to an unewestful facility. Inspection revealed from the condition of the conditio

AC/DC POWER, 11686. After agreement \$5 min. whus of flight the AC/DC power failed. Aircraft was at 42,000 Feet, 95 Meh in afterburrer, in a 60° bank 20 tim. Emergency was declared and uneventful flanding made at home base. Investigation revealed flanding made at home base. Investigation revealed that the oil quick discensed correction was foose on the entire engine mounted gase how reputing in loss of oil. The entire engine mounted gase how an appliced due to ownhear caused by loss of gase fabrication. The aircraft files how darks later with no capatificence now.

HYBRADUS SYTIM HAURI, F-102A. After agreement with the many one has of illigate and leve at 15 CoO News, the many one has of illigate and leve at 15 CoO News, the many of the

1-31, M.D. NIONEN, Flut first noticed that maximum at passed obtainable is 0.00 feet MM, with (fill power was 100 KMS. Accreft was in a cleen configuration, i.e. and the configuration of the configu

1-3.) HYDAMALE FALUEL. Hydraulz flucturious from 500 1000 pis occurred while in level flight, with indications as low as 500 pix when alterons were used. The green was lowered by the normal system or which first the presence dissipant to zero and the rose gas reliable state. The ser role of the hydraulz are curvalent was deplaced. When reserviced, the system curvalent was deplaced. When reserviced, the system curvalent was deplaced. When reserviced, the system curvalent was deplaced.

gency position of drag churk handle during landing roll, investigation revealed that the speed brake fore in the nose where well had bloom. Deban invalidation was found on one of the wise going to the right hand speed brake scharter limit switch. The crectity was revived between the limit switch and the byteralic control valve. The system then checked CK.

medianetons during landing. On ten we have large, were browned and artillary memorates to the final were browned and artillary memorates to the first was strongly as a second of the strongly as a second of the strongly design of

THE WAY THE BALL BOUNCES

ACCIDENT DATE

...

Thru September 1967



ON TOP OF THE HEAP

ADC | MO| ADC | MO| ANO
456 FG | 30 | 47 FG | 76 | 119 Fu

AB Wg 30 (18715 44 132 141 1

ACCIDENT FREE

BOX SCORE

100 AF 100 AF 1000 AF

CONV T-33 F-100 F-101 F TF-102

B-57 F-89 EC-121 JET 5.4 4.4
CONVENTIONAL 1.0 0

T-33 2 0 F-89 0 F-100 42 F-101 7 F TF-102 8 6

F-104 16 F-106 6 B-57 7

TE MAJOR ACCIDENT IN THE STATE OF THE REAL PROPERTY

F-106

we point with





HU-169 SNOLE ENGINE

Captain James B. Fall and his crew departed Trade Air Bios. Greedeads, at 15th hours corone to Sonfrestrees Air Base, Georalised in an HU-16th, Several hours afree takeoff, the number two engine began backfiring and losing power. The mixture was placed in rich and power evoluted on number two, and the power or number on was in-

All engine garige readings were recental and there were no external indications to what the problem was.

High winds and severe turbulence predicted a landing at Thirtie on the fight was centimed towards. See dreatens. An emergency was do cleared with Seedencerom Airways and an intercept was requested. Their course had to be present in clear the highest teenin vince they exceed whey leving utilized. Appears mately thirty ministers lace, the name borr loss engine began inverse back-firing and losing power. It was frought to use of the engine primer every less and a hill second succelled not the engine preference uncertainty to maintain parallel power. Accordit leting was executived and altitude had to be saintified for singuest, and dischess discaled the collision.

As the intercepting C-130 proached, it was discovered that UHF radio on the HU-16 was operative. Captain Fall's crew th force had to give VHF steers to C-130. The intercept was complete.

of just at high station on the insurance approach when the backing became so swere that the onne was shot down, and an encenful GCA landing was accomshed at 2300 hours at Sondeces. Captain Fall's professional airanship was displayed by his ability

work while coping with a lengthy energinery that was compounded by darkness, solverus weather, iche, and radio falture. To him, "We Polen with Pride." Captain Fall's crew: Capt James K. Schaehler, copilot

INTERCEPTO



...

SCOPE BOPES, AGAIN

HOST ITS AND ADDRESS

"ABCP's are published for testroother pur

I on original to the Office of the Air

the Cold Hard Facts...

reced it you must by over mountain ranges were ware ornanon commonly referred to as the esdustain wave when

a mateorological phe

- avoid high festicular clouds if the edges are very regiped and imegular, particularly if flying high speed

- WAYN GANGRALL (MAY 2000 LE VARIA) EZZ- WOLNTAIN

mm-ch, closs legenerity mm-mousta-de-devel co-mm-sort cross

